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Australian Orchid Review

Royal Botanic Gardens
Melbourne

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From the Editor's Desk



Again there is a lot in this issue, with a range of articles covering a wide spectrum of orchids. Wal Rhodes, one of the most successful growers and exhibitors of complex *Paphiopedilum* in Australia has contributed some notes on how to grow these slipper orchids. The accompanying photographs also highlight the quality of many of Wal's plants. I still find it amazing that some of these outstanding cultivars (ie. *Paph.* Clifford Peter 'Camira' AM/AOC-NSW 2003.), despite being granted high awards on the same day as major show, somehow miss out for greater triumphs, such as Grand Champion (or even Champion *Paphiopedilum*), and get beaten by primary hybrids which at best could be described as "pretty". So many Grand Champions seem to be picked from "left field", where little comparison can be made to anything similar. Personally, I think there have been far too many awards (or rewards!) given to novelty hybrids (and for just well grown examples of "normal" forms of species) than for mainstream genera that have been bred for many generations over decades or dare I say, centuries. "Complex" paphiopedilums, as well as cymbidiums and large-flowered cattleyas seem to be the types "missing out". But I guess that's another story!

Whilst on judging, I was recently invited to present some papers to the judges at the Orchid Council of New Zealand's AGM and annual judging seminar, hosted by the Manawatu Orchid Society (on the North Island, near Palmerston North). They are a most proactive group of enthusiastic, knowledgeable and friendly people, and they grow some really fine orchids. I know they are gearing up for a big national conference in 2005, to be held in Hamilton. More details to follow, as you will see we now have a page or two devoted to our New Zealand friends from across the Tasman - as they are without a regular orchid periodical. I welcome OCZN President Wally & Margaret Lomas as our associate from the North Island, joining Graham & Jan Letts from the South Island. In this issue, Graham Jackson reports on the recent show and weekend.

The famous Keith's Nursery, in Townsville, North Queensland is now closed, following a decision by Mick and Thelma Keith and their sons. This brings an end to an era, as one of the most respected orchid nurseries from northern Australia. We wish Mick and Thelma all the best for a long, happy and healthy retirement, and I personally am most grateful for the support and friendship they have shown me over many years.

Scott Barrie from Barrita Orchids recently emailed me, letting me know that the family nursery, started by his parents, is celebrating 40 years of continuous hybrid *Cymbidium* flower export during this season. Barrita Orchids have also developed quite a number of top class show-bench *Cymbidium* cultivars over the years. With the impressive *Cym.* Southern Star 'Chris' AM/AOC 2001, being one of the most recently awarded.

Well we have hardly had a winter this year, as it has been so mild. Many of our traditional spring flowered orchids are already in bloom, which may lead to us seeing some different plants on the showbench for the "spring" shows. Let's hope we get some more rain to the parts of the country that needs it.

August sees three huge orchid events, all on the same weekend! Gardening Australia Live at Homebush Bay, the Melbourne International Orchid Show at Collectors Corner and the St Ives Orchid Fair (NSW) are all being held 15-17 August 2003. The following month sees the Australian Orchid Conference, being held in Adelaide, South Australia in September 2003. See you there! ■

David P. Banks

Editor, Australian Orchid Review
dpbanks@ozemail.com.au

OUR COVER



Den. Avril's Gold 'Wingham'
AM/AOC-NSW 2003,
HCC/ANOS 2003. Awarded at
the Tinonee Orchids Show.
Grower: Don Cruickshanks,
Photo: D. P. Banks



SQUARE VANDA POTS

165mm x 165mm x 80mm
100mm x 100mm x 60mm

BASKET POTS

200mm x 130mm
140mm x 100mm
80mm x 75mm

ORCHID POTS

300mm x 120mm	120mm x 120mm
250mm x 150mm	100mm x 75mm
200mm x 200mm	80mm x 100mm
200mm x 100mm	80mm x 65mm
175mm x 120mm	70mm x 50mm
150mm x 100mm	50mm x 65mm
125mm x 75mm	

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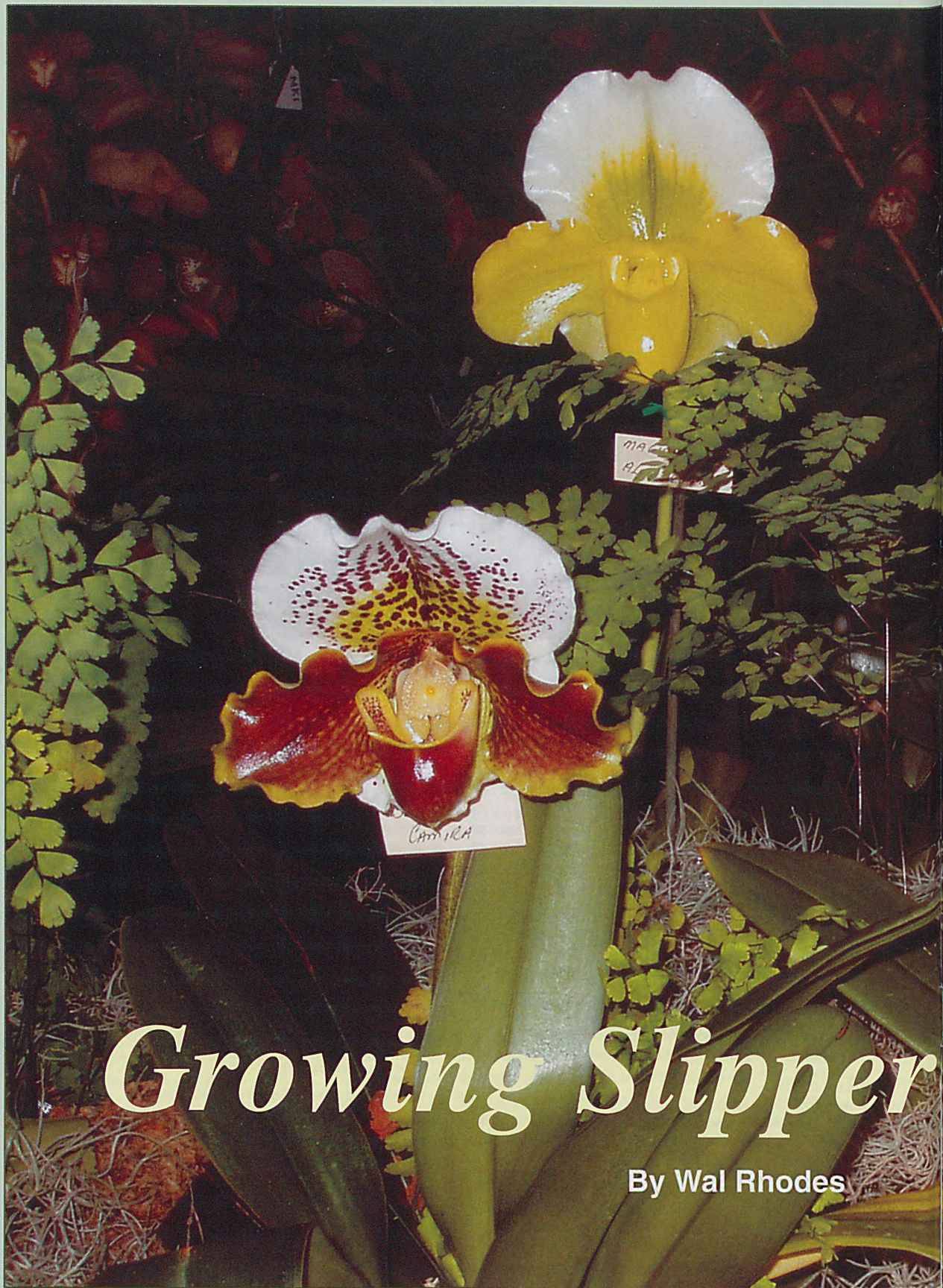
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Growing Slipper

By Wal Rhodes





Paph. Clifford Peter 'Camira' AM/AOC-NSW 2003



Paph. Clifford Peter 'Lime Sherbet' AM/AOC-NSW 2003



Paph. Danella 'Chilton'

Orchid enthusiasts throughout the world have grown slipper orchids from the genus *Paphiopedilum* since the early years of their discovery. The first plants were introduced into England in the year 1819 and by 1860 at least 15 new species were discovered and cultivated by enthusiasts. By the year 1900 more than 400 *Paphiopedilum* hybrids had been flowered and registered. Today there have been tens of thousands of hybrids made within this Southeast Asian genus, with almost one hundred species formally described.

Species *Paphiopedilum* are sought by collectors in the areas from New Guinea and Bougainville north to as far as Mainland China, across the Malaysian Islands and the Philippines to Thailand, Burma (Myanmar) and India. In China heavy penalties exist for collecting their protected species, like having your head chopped off, so smuggling of these plants is quite common. The International CITES Rules now apply to limit the movement of these plants around the world, presumably so to protect the species. Today many of the most attractive and most recently discovered species are now attainable as flasks or seedlings.

Most Slipper Orchids purchased at Orchid Society sales tables and specialist nurseries are many generations down the breeding lines and are referred to as "Complex Hybrids". The majority of these have chief influences from a handful of cooler, vigorous growing "slipper" species such as *Paphiopedilum insigne*, *P. spicerianum*, *P. villosum* and the closely related *P. boxallii*.

Cultivation

Slipper Orchids easily adapt to less than ideal conditions and continue to flower throughout various climatic conditions. Naturally, if you give them that extra bit of attention they will reward you with long lasting flowers up to 3 months with attractive lush foliage.

On the east coast of Australia they will grow in shaded areas protected from wind and draughts. If they are grown in shaded rockeries they should remain in their pots as every two years they should be lifted and re-potted with new compost.

In summer they should never be allowed to dry out and misting at night is beneficial with a more concentrated watering early mornings.

It is sometimes difficult to provide all these conditions, but it is important to try to achieve a balance at high humidity, even temperature, air movement and shade. These orchids don't have pseudobulbs and appreciate frequent applications of liquid fertilizers, i.e. Aquasol, Campbell's Blue and Yellow, Thrive etc., at half strength

fortnightly in the summer months reducing to monthly in winter. Slipper Orchids do not seem to respond to the beads or pelletised slow release fertilizers therefore I do not recommend their use.

They will grow in many different types of composts that contain pieces of chunky, (as opposed to flaky), composted or treated pine bark. I primarily use bark that is graded to approximately 10-15mm in size with the addition of slightly smaller pieces of charcoal and polystyrene pieces approximately the same size as the bark. You can also add small gravel pieces, broken shell etc. but do not exceed 10% of the total amount of compost. Basically it's three parts bark, to a part each of charcoal and polystyrene, with a small addition of river pebbles and crushed shell. Mix all the ingredients together, dampen down and store in plastic garbage bag or bin for approximately 1 week prior to using.

It is important to remove some of the toxins that are in the bark by soaking for approximately 1 week in water, with the addition of a sprinkling of iron chelates or garden lime or Dolomite. Strain off the bark and rinse with a hose prior to mixing with the other ingredients.



Paph. Freckles



Paphiopedilum hangianum is a recently described (1999) and endangered species from Vietnam.



Paph. Salamander 'Camira'

I use plastic pots as containers for slipper orchids today as they are cheap, easy to obtain, do not break and are light to handle. They do not dry out like the terracotta pots used years ago. Plastic pots are non-porous so the compost dries out slowly, mainly from the top of the compost. Do not use pots too large or too deep as *paphiopedilums* prefer to be

slightly pot-bound, so when repotting, remove any dead roots and repot into a pot that the roots just fit into. Sometimes the tops of the plants (the leaves) look too large for the pot, but the roots like to wind around the inside edges of the pot. Potted plants should never be allowed to dry out, but should not be exposed to continued soaking. They should be just

damp at all times.

Slipper orchids are sometimes attacked by fungus if air movement is restricted or the plants are allowed to remain continuously wet; so as preventative in humid weather, spraying with Benlate, Mancozeb, Zineb etc. will eliminate most fungus problems. They are resistant to most pests, but if scale is allowed to attack them it will slowly drain the plant and kill it, so spray with Malascale as a preventative, probably once a year is sufficient, but most scales require two sprays and sometimes more to completely eradicate them. Mealy bugs can also be a problem, hiding within the sheaths behind the flower. Snails, slugs and grasshoppers should also be prevented from feasting on the fleshy leaves, buds and flowers.

Complex slipper orchids hybrids are easy to grow and their long lasting flowers, which come in a range of colours, are very rewarding. So try a few plants, either as mature divisions or seedlings – which could be the next champion of the show!

(All plants grown by the author, except *Paphiopedilum hangianum* – owned by Royale Orchids. All photos by David P. Banks.)

**Wal Rhodes,
Camira Orchids
2 Iluka Street
Tea Gardens NSW 2324**



Group of 4 *Paphiopedilums* shown at 2003 OSNSW Winter Show

Euchile citrina a history in pictures

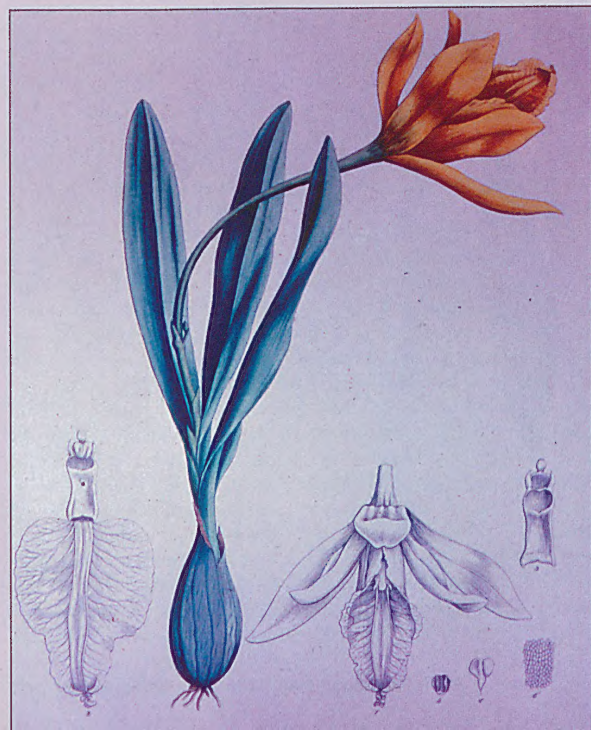
by Rudolf Jenny

Euchile citrina (LaLlave & Lexarca) Withner *Cattleya* and their Relatives Vol. 5 (1998) pg.138

Euchile citrina belongs to those orchid species, which are not fitting in the concepts of existing genera and therefore, after many recombinations by different authors, ended together with *Euchile mariae* in its own genus. The first information about this spectacular orchid goes back several centuries into the years 1570 to 1576 and the history of the species is well worth to be reconstructed.

Fernando HERNANDEZ was born in Toledo, Spain in 1515 and studied medicine at the university of Salamanca. At that time a medical study also included the study of other natural sciences like botany and in part also zoology and mineralogy. In 1569, King Phillip II of Spain instructed him to work out a complete natural history with all maps and enumerations of the animals, plants and minerals of Nueva Espana (Nova Hispania), as Mexico was then called. In 1570 HERNANDEZ departed for Mexico and in the course of the next five years he travelled over the country together with a group of local experts and, during this time, described every animal, every mineral and especially every plant which he came across with. His main interest naturally was in the medical plants and here, particularly, HERNANDEZ was dependent on the support from his Indian companions. As he himself stated in his manuscript that, without the help of these Indian experts, the task which had been given him would have been quite impossible to fulfil. In September of 1576 a total of 16 folio volumes of the later *Thesaurus* had been completed, full of descriptions and drawings of what HERNANDEZ had seen and found.

Euchile citrina as *Cattleya karwinskii* Martius from *Auswahl merkwürdiger Pflanzen des K. botanischen Gartens zu München* (1830)

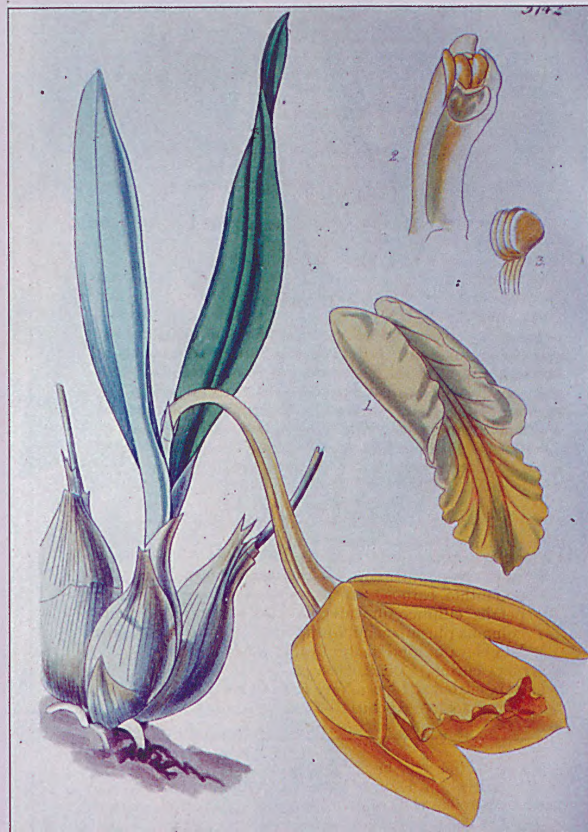


The text first was written in Latin but was then translated into Spanish and later also into Nahuatl, the main language of the Mexican Indians. Right after the completion of this work HERNANDEZ returned back to Spain. When he arrived there, however, he had to learn that nobody had money or interest to have his monumental work published. The 16 volumes, although, were bound in leather at considerable cost and provided with silver clasps and locks. Then they landed in the sacred vaults of the Royal library at the Escorial in Madrid where they were soon almost forgotten. HERNANDEZ died in 1587 without having seen printed his life work.

A few years later, however, King Phillip II remembered HERNANDEZ' work and gave order to Nardo Antonio RECCHI to prepare and to publish a revised condensation of HERNANDEZ' monumental manuscript. RECCHI interpreted this order with regards to the condensation in such a way that he should concentrate on the medico-botanical part only and, therefore, only took hold of the respective originals by HERNANDEZ which he had gathered at the Escorial. All the remaining material that stayed at the Escorial and pertaining to all the travelling by HERNANDEZ burnt later in 1671.

RECCHI died before his work had been finished and the part of HERNANDEZ' manuscripts which had been with him passed on to his nephew who in turn sold them to Prince Frederico CESI,

Euchile citrina as *Cattleya citrina*, from *Curtis's Botanical Magazine* (t.3742), 1839





CATTLEYA CITRINA. Lindl.

Euchile citrina as *Cattleya citrina*, from the famous *Pescatorea* (1855)



Euchile citrina as *Cattleya citrina*, from the journal *Flore des Serres* (1867)

Count of Agua Sparte. Based on a first selection of HERNANDEZ' drawings by RECCHI, the *Quatro Libros de la Naturaleza y Virtudes de los Arboles, Plantas y Animales de la Nueva Espana, en Especial de la Provincia de Mexico, de que se aprovecha la Medicina*, edited by Francisco JIMENEZ (also written as XIMENEZ), were published 1615 in Mexico City. This was the first time that illustrations of Orchidaceae from Mexico were published, and the 'Quatro Libros' were used later by other authors like Johannes de LAET, Robert MORISON, John RAY and Joseph Pitto de TOURNEFORT for their own publications. In the same work we also find the first illustration of 'Cozticoatzonte Coxochitl', our well-known *Euchile citrina*.

Frederico CESI had been a founding member of the famous Accademia Lyncea in Rome; his intention was to use RECCHI's works for continuing his publications of the '*De Rerum Medicarum Novae Hispaniae Thesaurus*' and he entrusted some experts with the completion of RECCHI's preliminary works with the help of the remaining original manuscripts by HERNANDEZ which were still stored at the Escorial. SCHRECK dealt with the botanical part and, after completing this part of the '*Thesaurus*' in 1618 he travelled to Madrid himself to look for possible additions in HERNANDEZ' manuscripts. SCHRECK was member of the Academia Lyncea and became a monk in his later years, turning his name into TERRENZIO. In the year 1628, the first part of the '*Thesaurus*', mainly with the botanical side arranged by SCHRECK, was first published (Hernandez, 1628). CESI died on August 11th 1630, two years after the publication. He left detailed instructions to the Accademia Lyncea to continue his work; unfortunately, however, without the necessary funds. For this reason the work came to rest until a member of the Accademia Lyncea, Francesco STELLUTI was able to raise further funds for the continuation from the secretary of the Spanish Ambassador in Rome, Don Alfonso DE LAS TORRES, named TURIANO. Thus the entire work, now reduced to 950 pages and

approximately 800 wood engravings was published in 1651 (Hernandez, 1651). The first edition by CESI of 1628 contained 750 wood engravings only and was undoubtedly planned as a partial publication. Only later it was decided not to noticeably enlarge the contents, so that the second edition by STELLUTI was, in fact, merely an enlarged version of the first and not, as RECCHI had planned, the beginning of a whole series. Unfortunately the originals by HERNANDEZ in the Royal library, as already stated, were lost in 1671 by fire and thus, the '*Quatro Libros*' and the known editions of the '*De Rerum Medicarum Nova Hispania Thesaurus*' represent only a very small and incomplete part of the immense work by HERNANDEZ. In 1760 Juan Bautista MUNOZ found in the library of the Imperial College in Madrid "draft manuscripts by HERNANDEZ, revised and corrected in his own hand, and consisting of five volumes". These papers were published in 1790 by Casimiro Gomez ORTEGA as three volumes (although originally five volumes were planned).

The most complete edition of HERNANDEZ' work was published in Madrid in 1890 as '*Historia natural de Nueva Espana*', together with some 3000 descriptions of Mexican plants. This edition was later on translated into Spanish and published with the illustrations of the '*Thesaurus*' from 1628 under the title '*Comentarios a la obra de Francisco Hernandez, Historia de las plantas de Nueva Espana*' in 1984 by the Universidad Nacional de Mexico (Valdez & Flores, 1984). Among the plants already depicted in the first edition of 1628 there are a total of five different Orchidaceae, all of them illustrated very clearly and also described in Latin more or less in detail. The names used by HERNANDEZ in his manuscript correspond to the indications of the plants in the Aztec language Nahuatl. Unfortunately, on the basis of the illustrations merely by two species a reliable determination is possible. The other illustrations not having either any flowers or these not being designed very clearly, i.e. the necessary details

Euchile citrina as *Cattleya citrina*, from the journal *Gartenflora* (1878)





Eucile citrina as *Cattleya citrina*, from *Selected Orchidaceous Plants* (1881)

of the flower not existing. After the '*Quatro Libros*' from 1615, these pictures undoubtedly are the oldest illustrations of Orchidaceae from Mexico. In both editions of the '*Thesaurus*' (1628 and 1651) the illustrations and the descriptions coincide exactly, *Eucile citrina* is illustrated only in the '*Quatro Libros*' from 1615 and is missed in the '*Thesaurus*'. Whether all existing drawings and descriptions of Orchidaceae by HERNANDEZ were published either in the '*Quatro Libros*' or the two editions of the '*Thesaurus*' is not known'. SCHRECK had seen the original manuscript of HERNANDEZ at the Escorial himself, the fact that some species are missed in the '*Thesaurus*' seems to make clear that SCHRECK made a selection for his publication, probably because he knew the content of JIMENEZ' '*Quatro Libros*'. The Aztec names of the illustrated Orchids undoubtedly originate from HERNANDEZ himself, the Latin names are from SCHRECK.

The next authors who have dealt with our species were Canonigo Pablo de la LLAVE and Juan Martinez de LEXARCA in their work '*Novorum Vegetabilium Descriptiones, Orchidianum Opusculum*', published 1824 – 1825. The authors already referred their *Sobralia citrina* to the old description by HERNANDEZ. Juan Martinez de LEXARCA was 1785 born in Valladolid, Michoacan, Mexico, Pablo de la LLAVE was born 1773 also in Mexico. Most of the plants described in their '*Novorum Vegetabilium Descriptiones*' were collected by LEXARCA, the descriptions were made by both authors. Without any doubts *Sobralia citrina* is identical with the later *Cattleya citrina* or *Eucile citrina*.

It was John LINDLEY who re-described the species 1826 in his famous '*Collectanea Botanica*'. Together with *Cattleya forbesii* LINDLEY published the description of *Cattleya citrina* in the text of the plate (37) of *Cattleya loddigesii*, unfortunately LINDLEY published no illustration of *Cattleya citrina*. The *Collectanea Botanica* was published by LINDLEY between 1821 and 1826, ultimately comprised 41 plates, 16 of them illustrating

orchids. Many of the illustrated plants were from William CATTLEY's garden. The genus *Cattleya* – described 1821 with plate 33 in the '*Collectanea Botanica*' – was dedicated by LINDLEY to William CATTLEY. CATTLEY was a wealthy merchant and one of the first interested in tropical Orchids in England, he lived between 1788 and 1835. CATTLEY was John LINDLEY's – then in his early twenties – first patron and mentor and spent money to allow LINDLEY to make drawings from the plants in his collection in High Barnet. The original drawings are kept at the British Museum of Natural History in London.

The first coloured illustration of the species was published in 1830 under the name of *Cattleya karwinskii*. The author, Karl Friedrich Philipp von MARTIUS published a selection of plants cultivated in the botanical garden of Munich, Germany as '*Auswahl merkwürdiger Pflanzen des K. botanischen Gartens zu München*'. The plant was collected by Willhelm Friedrich KARWINSKI von KARWIN, German botanist, collector and traveller with Hungarian roots, in Oaxaca, Mexico. Through KARWINSKI, the botanical garden in Munich imported some plants of the species and they flowered soon. Obviously MARTIUS was not aware of the existing description by LINDLEY and so *Cattleya karwinskii* is the oldest synonym of *Cattleya citrina*.

The first illustration of the species under the name *Cattleya citrina* was published 1839 by William Jackson HOOKER in Curtis's Botanical Magazine. The drawing was made by Walter Hood FITCH, the plant was collected again in Oaxaca, Mexico, by Robert SMITH in 1838 and was cultivated at Woburn Abbey in England in the collection of the Duke of Bedford. Of all botanical journals '*Curtis's Botanical Magazine*' is without any doubts the best known and most famous. With an interruption of 10 years between 1984 and 1994, the journal was published from 1787 till today under the same title and in the same format. Between 1984 and 1994 it was published under the new name '*Kew Magazine*'. '*Curtis's Botanical Magazine*' was founded in 1787 by William CURTIS with a circulation of 3000 issues. During more than 200 years many famous botanists such as William Jackson HOOKER,

Eucile citrina as *Cattleya citrina*, from the famous *Reichenbachia* (1888)



his son Joseph Dalton HOOKER, Robert Allen ROLFE and Victor SUMMERHAYES acted as editors and plates of many famous artists like Walter Hood FITCH, Franz Andreas BAUER and Lillian SNELLING have been published.

Together with Jules Emile PLANCHON (1823 – 1888) and Gustav Adolf LUEDDEMANN (1821 – 1884), Heinrich Gustav REICHENBACH was editor of another famous iconography, the '*Pescatorea*'. *Pescatorea* is used also as generic name for an Orchid genus from the *Huntleya* alliance. Both, book and genus are dedicated to the owner of one of the most famous orchid collections in Europe at this time, Jean Pierre PESCATORE at Chateau de la Celle, St. Cloud (1793 – 1855). The iconography was published between 1854 and 1860 by Jean Jules LINDEN, owner of the famous nursery in Belgium. PESCATORE was financially involved in LINDEN's project, unfortunately he died before the first volume was finished and – based on LINDEN's own words – he missed to write down his intention concerning his financial support in his last will, so the first volume was also the last one. 48 plate were published, plate 9 from August 1854, published with the 3rd part 1855, shows a beautiful specimen of *Euchile citrina*, collected in Michoacan, Mexico, by Auguste Boniface GHIESBREGHT, imported by LINDEN and flowered in PESCATORE's collection.

1867 another illustration of *Cattleya citrina* was published in the journal '*Flore des Serres*'. '*Flore des Serres*' is one of the most famous Belgian journals, published in 23 volumes as a collection of beautifully coloured plates and descriptions between 1845 and 1883, published by Louis van HOUTTE and also used as a very colourful catalogue for his nursery. Louis van HOUTTE wrote the text and the description of *Cattleya citrina*, obviously he was not absolutely sure whether he should follow LINDLEY's opinion and treat the plant as *Cattleya* or REICHENBACH's view and use the name *Epidendrum citrinum*, so he used both names. The plant on the illustration is upright, the flower arching, the particular plant itself was very probably flowering for the first time in culture after its importation.

Cattleya citrina was also illustrated in the German journal

Euchile citrina as *Cattleya citrina*, from WARNER & WILLIAMS, *Orchid Album* (t.469, 1893)



CATTELEYA CITRINA Lindl.

Euchile citrina as *Cattleya citrina*, from *Dictionnaire Iconographique des Orchidées* (1897)

'*Gartenflora*' in 1878. The short description together with some notes about culture were given by the editor of the '*Gartenflora*' Edouard August von REGEL. REGEL mentioned the fact that the plant in his culture was fragrant and that 1839 HOOKER in his description of *Cattleya citrina* in '*Curtis's Botanical Magazine*' declared the plant as non-fragrant.

Another beautiful plate of *Cattleya citrina* was published 1881 by Robert WARNER in the third volume of the '*Select Orchidaceous Plants*'. The drawing was made by Walter Hood FITCH, the text was written by Benjamin Samuel WILLIAMS, owner of the Victoria and Paradise Nursery in Upper Holloway. The illustrated plant was from WARNER's own collection at Broomfield.

Naturally *Cattleya citrina* must not be missed in one of the most famous orchid books ever published, the '*Reichenbachia*'. In the same sense as the '*Lindenia*', the '*Reichenbachia*' was something like a super-deluxe catalogue of the nurseries of SANDER in England (St. Albans) and Belgium (Bruegge). It was published between 1888 and 1894, the 192 published plates are mostly done by Henry George MOON and the texts in German and English are mostly by REICHENBACH himself, later by Robert Allen ROLFE. The plate of *Cattleya citrina* was published in 1888 (plate 20), the plant was from the collection of Robert H. MEASURES at the Woodlands. In the text we read that the cultivation of the species was a problem, only a few growers succeeded in keeping the plant alive for a longer period, we read: "Fortunately, *Cattleya citrina* has been and is still imported in large quantities, otherwise it would soon become scarce, on account of its being one of those plants requiring more than ordinary skill in order to maintain it in continuous health and vigour."

The next plate of *Cattleya citrina* was 1893 published in '*The Orchid Album*'. This series of 10 volumes with 480 colored plates of orchids was published between 1882 and 1897 by Robert WARNER, Benjamin Samuel WILLIAMS and Thomas MOORE. When B.S. WILLIAMS and T. MOORE died, William Hugh GOWER and Henry WILLIAMS, son of Benjamin Samuel WILLIAMS took over. Most of the illustration were done by J. Nugent FITCH, but the drawing of *Cattleya citrina* (t.469) was



Euchile citrina in cultivation

done by Miss. Gertrude HAMILTON after a plant from the Victoria and Paradise Nursery.

Alphonse GOOSSENS prepared a drawing of *Cattleya citrina* and published it together with Alfred Celestin COGNIAUX in 'Dictionnaire Iconographie des Orchidées' in 1897. The plant GOOSSENS used was from the famous collection of George WAROCQUE at Chateau de Marimont, Charleroi, Belgium. WAROCQUE was president of the Orchid Society "Orchidéenne" in Belgium and had a large orchid collection, *Cattleya warocqueana* L.Linden is dedicated to WAROCQUE. The 'Dictionnaire' was published by Alfred Celestin COGNIAUX and Alphonse GOOSSENS as a collection of plates and texts between 1896 and 1907. A total of 826 plates of species and hybrids were published in this time.

The taxonomic history of *Euchile citrina*

The first mentioning of *Euchile citrina* in HERNANDEZ' work of 1615 was explained above. Since the name HERNANDEZ used for the plant was given before 1753 (LINNE's publication of 'Species Plantarum') it became invalid, like all other pre-Linnean names, when the new system developed by LINNE was accepted by the botanical community.

The next name used for the species was *Sobralia citrina*, given by La LLAVE and LEXARCA in 1825. 1826, only one year later, LINDLEY described the species as *Cattleya citrina* in 'Collectanea Botanica', in fact LINDLEY knew *Sobralia citrina* La Llave & Lexarca, his description was therefore not the description of a new species but a recombination, this was also the reason why LINDLEY used the epithet *citrina* given by La LLAVE and LEXARCA.

In 1830 MARTIUS described *Cattleya karwinskii*, the illustration shows the identity with LINDLEY's *Cattleya citrina*, MARTIUS obviously was not aware that the plant was already named.

When REICHENBACH treated the genus *Epidendrum* in his revision of the orchid family, published between 1849 and 1864 in 'Walpers Annales Botanices Systematicae', he integrated LINDLEY's *Cattleya citrina* in *Epidendrum* as *Epidendrum citrinum* (LaLlave & Lexarca) Rchb.f..

A first variety was published by GOWER 1893 in 'Orchid Album', *Cattleya citrina* var. *aurantiaca*. The plant was not illustrated, but based on the text it is clear that GOWER had an colour wise aberrant specimen and not a real variety.

1961 it was Robert L.DRESSLER who integrated *Cattleya citrina* in the old genus *Encyclia* as *Encyclia citrina* (LaLlave & Lexarca) Dressler. *Encyclia* was described 1828 by William Jackson HOOKER with its type species *Encyclia viridiflora*.

DRESSLER and POLLARD described 1971 in 'Phytologia' the section *Euchile* in the genus *Encyclia* and integrated the old *Cattleya citrina* and *Epidendrum mariae* Ames in this section. When 1998 Carl WITHNER separated both species in an own genus, he used the section *Euchile* Dressler & Pollard of *Encyclia*, described it as own genus and transferred *Encyclia citrina* and *Encyclia mariae* to *Euchile*.

In the third edition of Rudolf SCHLECHTER's 'Die Orchideen', published between 1973 and 2001 Friedrich BRIEGER recombined 1977 *Cattleya citrina* into *Hormidium citrinum*. The genus *Hormidium* was described by HEYNHOLD in 1840, based on a name used but never published by LINDLEY.

It is difficult to say whether the situation of today with an own genus *Euchile* for *Cattleya citrina* and *Epidendrum mariae* will be the end of the story.

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Synonyms

Cozticoatzonte Coxochitl Hernandez

in F.JIMENEZ, *Quatro Libros de la Naturaleza y Virtudes de los Arboles, Plantas y Animales de la Nueva Espana*, 1615:240

Sobralia citrina LaLlave & Lexarca

Novorum Vegetabilium Descriptiones, Orchidianum Opusculum, 1825:21

Cattleya citrina (LaLlave & Lexarca) Lindley

Collectanea Botanica part.8:1826.sub.t.37

Euchile citrina, watercolor painting by Annemarie TRECHSLIN, artist of the famous *Thesaurus Masdevalliarum*



XII. SOBRALIA.

Perigonium resupinatum. Segmenta 5-oblonga patentissima, subdepressa, aequalia, 2-interiora paulo angustiora. Labellum, obcordatum, fimbriatum.—Gynostemium sublineare 3-fidum canaliculatum. (Bulbi fasciculati, etc. Syst. veget. Flor. Peru.—Pers. Ench. t. 2. p. 517.)

23. SOBRALIA CITRINA:

8. bullis turbinatis aut ovatis, membranulis albicanibus tectis; foliis oblongo-lanceolatis glaucescentibus; floribus concoloribus crassis.

Planta parasitica speciosa. — Bulbi oblongo-turbinati aut ovati, membranulis albicanibus tunicati, confertissimis: radicularum vermiciformes, spongiosae. — Folia tum ovata, tum oblongo-lanceolata, conduplicata, carnosae, glaucae, encerviae, laevigatae; bina aut terna in singulo bulbo. — Scapus teres, supra bulbos natus, ad basim squamulis distichis bracteatus uni-, raro biflorus, pendulus. Flos terminalis magnus, odoratissimus, concolor, pulpa citrinam referens. — Perigonium carnosum, crassum, luteum, glaucescens, segmentis 5-aequalibus patentissimis, 3-externis ovatis integerrimis; duobus interius angustioribus emarginatis, limbo interius crenulato. Labellum 3-lobatum, concolor, lobulo intermedio venoso, undulato, emarginato, limbo scarioso albicante. — Gynostemium columnare carnosum, obscure 3-quetrum, apice 3-fidum, dentibus lateralibus acutis, intermedio crassiori obtuso, antheram operculatam concludentibus. Pollinis massae quatuor (*), triangulari-reniformes, ceraceae, filamentis ligulatis lateraliter adhaerentibus; liberae sub operculo reniformi 4-lobulae, acuminatae, caduco. Signa obcordata, glutinosum antice excavatum. — Capsula

22.

oblongo-turbinata, 6-angularis, 3 valvis. Semina scrobiformia floccosa, tenuissima, utrinque acuminata.

Habitat supra arbores in montibus Vallisoleto proximis. Floret Majo et Aprili (Vernacule *Tattingueni*, inter Michuacanos: *Corticoatzontecoxochitl*, *Hernand. t. 1. p. 240 ed Matr.*)

Obs.* Numero massularum pollinis tantum a *Sobralis*, (Fl. Per.) differt. — Planta Epidendro pulcherrimo. *Sessé et Mog.* proxima. L.

Description of *Euchile citrina* as *Sobralia citrina* from LaLLAVE, P. & J.LEXARCA in *Novorum Vegetabilium Descriptiones, Orchidianum Opusculum*, 1825

Cattleya citrina var. *aurantiaca* Gower

Orchid Album 10:1893.subt.472

Cattleya karwinskii Martius

Auswahl merkwürdiger Pflanzen des K.botanischen Gartens zu München 2:1830.14.t.10

Epidendrum citrinum (LaLlave & Lexarca) Rchb.f.

Walpers Annales Botanices Systematicae 6:1861.317

Encyclia citrina (LaLlave & Lexarca) Dressler

Brittonia 13:1961.264

Hormidium citrinum (LaLlave & Lexarca) Brieger

R.SCHLECHTER, *Die Orchideen* ed.3,1a(9):1977.576

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Cattleyas and their Relatives 5:138



This Show was a Real Pearler

by Graham Jackson

Over recent years Queens Birthday Weekend has become the major orchid event on the New Zealand calendar. Hosted by different Orchid Societies around the country, the weekend now includes the Orchid Council of New Zealand AGM, the national judging seminar and of course an orchid show. This is the 30th anniversary year for the Manawatu Orchid Society and being able to host the weekend provided an ideal opportunity to celebrate the event. We were pleased to welcome David Banks as our special guest for the weekend.

These shows benefit from the quality plants brought along by the visiting judges. This year we had seven individual displays presented by visiting orchid societies and a large central display by the local society featuring a revolving birthday cake. The show theme in keeping with a 30th birthday was 'orchids and pearls' and some displays showed considerable flair and imagination in portraying this theme. The champion orchid was a magnificent large plant of *Cymbidium mastersii* which featured in the Bay of Plenty Orchid Society display. This plant also won the best cymbidium and best



Bill Liddy with his basket of *Dendrobium cuthbertsonii*

specimen classes. It must have been a major logistical exercise to safely transport it over 300 miles to the show. Reserve Champion was a fine plant of *Paphiopedilum* Lynleigh Koopowitz exhibited by Manawatu Orchid Society member Kevin Sherlock. The display class was won by the Hawkes Bay Orchid Society.

The AGM itself proceeded according to plan with no surprises. President Rod Marshall having completed his three-year term handed over the reins to new President Wally Lomas. Full details were provided of the 5th NZ International Expo being held in Hamilton in September 2005. We look forward to welcoming many Aussie visitors to this show. Watch for details in future issues of the magazine.

The quality of assembled plants ensured there would be plenty for the judges to do and several plants were awarded. David Banks presented papers on both days that were well illustrated from his fine selection of orchid slides and introduced some suggested guidelines for judging species orchids.

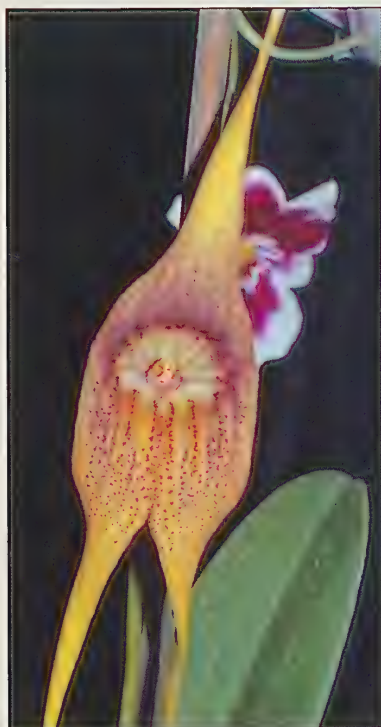
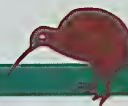
One of the regular features of the judg-



Dendrobium (jonesii x atroviolaceum)



Paphiopedilum Lynleigh Koopowitz

*Masdevallia macrura**Vanda coerulea*

ing seminar is the business meeting where the attending judges have the opportunity to discuss guidelines or other matters of importance. The main items raised for discussion this year were regulations covering acceptance of digital photos and the introduction of a registration card identifying judging status. I'm sure that our judging system has benefited from the opportunity for feedback and healthy discussion at these national as well as regional seminars.

The social side of these weekends is always important. At the dinner on Saturday evening the 116 who sat down to dinner included many local society

members who joined with the registrants. Once again David Banks proved to be an able after dinner speaker. Manawatu Society President Graham Jackson presented life memberships to Don Horman, Mary Horman and Ronnie Rowntree. The specially iced birthday cake was cut by life members Gordon and Eileen Maney.

On Sunday evening with all official activities concluded a large group got together again for a casual dinner. On Monday morning many of the registrants took the opportunity of visiting local growers collections before returning home. Monday evening provided a further opportunity for local members to meet informally with David and view a selection of his slides.

*Phragmipedium caudatum*

Graham Jackson
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NEW ZEALAND SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
29 August	11.00am-5.00pm	Spring	Whangarei	Forum North
30 August	9.00am-4.30pm			Rust Avenue
31 August	10.00am-4.00pm			Whangarei
12-13 September	10.00am-5.00pm	Spring	New Zealand	Mt. Albert War Memorial Hall
14 September	10.00am-4.00pm			New North Road, Mt. Albert, Auckland
27-28 September	10.00am-4.00pm			Havelock North Community Centre, Te Mata Road, Havelock North
27 September	11.30am-5.00pm	Spring	Waikato	Hamilton Gardens Pavilion
28 September	10.00am-4.00pm			Hamilton
4-5 October	10.00am-4.30pm			Canterbury Horticultural Centre, Riccarton Avenue, Christchurch
11 October	12 noon-5.00pm	Spring	Nelson	Hope Hall
12 October	10.00am-4.00pm			Main Road, Hope
17 October	10.00am-4.30pm			John McGlashan College, Pilkington Street, Maroi Hill
18 October	10.00am-4.00pm	Spring	Wanganui	Memorial Hall
				Queens Park, Wanganui
				Johnsonville Community Centre
			Capital City	3 Frankmoore Avenue, Johnsonville

Tinonee Orchids Open Day and Show 2003

(or the “Avril’s Gold” Show)

text and photos by David P. Banks

Sunday 13th July 2003 marked the 10th Anniversary of the Tinonee Open Day and Show, held at Ray & Lorraine Clement’s nursery, near Taree on the mid-north coast of New South Wales. We were blessed with excellent weather, and one of the best displays showcasing the latest in Australian *Dendrobium* hybrids.

This has now become a weekend not to be missed on the orchid calendar, with many travelling from as far away as Queensland and Victoria to enjoy the camaraderie and festivities that go along with such an event.

On the Saturday, local native expert Ron Tunstall, accompanied by the profoundly knowledgeable John Riley, hosted the annual bushwalk to show a party (of close to forty) some of the local sights and their orchids. They visited an area near Dingo Tops and found a wealth of rock and tree orchids, with only one terrestrial, the greenhood - *Pterostylis curta*, in bloom. Some of the orchids spotted included *Dendrobium speciosum* subsp. *hillii* (Den. *tarberi*), *Dendrobium kingianum*, *Dendrobium gracilicaule*, *Dockrillia fairfaxii*, *Dockrillia pugioniformis*, *Bulbophyllum elisae*, *Sarcocylus falcatus* and *Plectorrhiza tridentata*. The find of the day was the discovery of a population of the rarely seen and uncommon *Sarcanthinae* species, *Schistotylus purpuratus*. The plants were well in bud and unmistakably that species, which is closely related to *Papillilabium beckeri*. This “new” population extends the southern distribution limit of this twig epiphyte.

About thirty of us enjoyed a fine meal in a steakhouse in Taree on the Saturday night. (I still wonder, why do so many people order seafood at a steakhouse?!). The late afternoon storm freshened the bushland, and the plants at the nursery, but the evening cloud cover prevented us from getting the telescope out!

Sunday morning awoke to cloudless skies, and the rest of the plants were assembled for judging. The quality and variety of the native *Dendrobium* hybrids was first class, in a wide range of colours and forms. Native orchid fanatics such as Don Cruickshanks and Henk van den Burg benched the majority of these plants, with some very fine and well-grown plants exhibited by Wayne Perrin.

Champion Australian Native Hybrid of



Den. Avril's Gold 'Ray' HCC/AOC-OSCOV 2001 (grower Henk van den Berg)



Den. Avril's Gold 'Angus' (grower Henk van den Berg, ex John Purvis)



Den. Avril's Gold 'Buttercup' (grower Henk van den Berg)



Den. Avril's Gold 'Louanne' (grower Henk van den Berg)



Den. Avril's Gold 'Phoebe' (grower Henk van den Berg, ex John Purvis)



Den. Avril's Gold 'Wingham' AM/AOC-NSW 2003, HCC/ANOS 2003 (grower Don Cruickshanks)

the show went to Don Cruickshanks' outstanding and brightly coloured *Dendrobium* Avril's Gold 'Wingham'. Don said that he actually purchased this plant as a discarded first flowered seedling! It was later scrutinised by both the Australasian Native Orchid Society (ANOS) Judging Panel, as well as the Orchid Society of New South Wales (NSW) Panel. It was awarded a Highly Commended Certificate from ANOS and an Award of Merit from the OSNSW Panel. This divergence in result is due to two facts, different people assessing the plants from distinct panels, as well as slightly different judging standards. Orchid judges around the country should study the photographs that accompany this note.

Don's plant was simply dazzling, with individual blooms that make *D. speciosum* flowers look small. The plant still has some growing to do, as I don't believe it has reached its maximum pseudobulb size. It is one of the clones bred from *D. speciosum* 'Windermere'. It is the best winter flowering Australian *Dendrobium* hybrid that I have seen; the only plant that is superior is the excellent *D. Yondi* Tina 'Goliath' FCC/AOC-NSW, FCC/ANOS that was awarded in 1999. I know David Butler of Green Vista Orchids has made the hybrid between *D. Avril's Gold* and *D. Yondi* Tina, but these are yet to bloom and are obviously hot property.

There were over a dozen high quality clones of *Dendrobium* Avril's Gold on display. This has quickly become what is arguably the most sought after hybrid grex within the Aussie natives. It is a hybrid made by the late Ray Hill (and registered by Ray Clement in 1998) between *D. Aussie Child* 'Avril' HCC/AOC-NSW and *D. speciosum*. Avril was Ray Hill's wife. Ray Clement told me that Ray Hill made the hybrid twice; both times using his awarded *D. Aussie Child* 'Avril' as the pod parent. The original hybrid was made using the brightly coloured *D. speciosum* subsp. *grandiflorum* 'Golden Fluke', whilst the remake, made the following season, was made using the famous clone and consistent type form *D. speciosum* 'Windermere'. Generally, those with the more intense colours, and somewhat bow-legged lateral sepals, were derived from the 'Golden Fluke' strain, whilst the cleared yellow-gold and better shaped flowers were produced from the 'Windermere' crossing.

Henk van den Berg benched a number of his "original" plants of the cross, including 'Louanne', 'Buttercup' and 'Ray'. 'Louanne' is from the 'Golden Fluke' line, whilst the other two are derived from 'Windermere'. Henk also benched a few clones that he inherited from the collection of the late John Purvis, including the uniquely dark coloured 'Angus' (bred

from 'Golden Fluke') and 'Phoebe' (bred from 'Windermere'). Those plants had shorter than expected inflorescences for the hybrid, but this could be due to them being recently divided and/or repotted.

Personally, like the primary hybrid *D. Hilda Poxon* (*speciosum* x *tetragonum*), I think plants of *D. Avril's Gold* are best grown into large specimens, as I don't think they enjoy being divided. It is a slow growing hybrid, and not as vigorous as most *D. speciosum* hybrids, an unfortunate legacy from the weak growing *D. Aussie Child* 'Avril'.

For the record, the genealogy of *D. Avril's Gold* is:

- 75% *D. speciosum*
- 12.5% *D. tetragonum*
- 6.25% *D. falcorostrum*
- 6.25% *D. fleckeri*

So where do you get these Avril's Gold's from? Most of the original seedlings from both crosses would have bloomed now, and would be tucked away in specialist native orchid collections. Previously, advanced seedlings were selectively available, ranging in price from \$40- to \$100- and sometimes higher. Flowering plants also attract handsome money, with divisions of selected clones running into several hundred dollars. It is highly unlikely that this hybrid can be remade using the exact parents, as the main plant of *D. Aussie Child* 'Avril' is now dead, but rumours abound that a couple of backcuts are still in cultivation. There have now been at least two cultivars that have been mericloned. *D. Avril's Gold* 'Pumpkin Pie' (which I have not seen) is soon to be released by a Victorian orchid nursery, whereas the awarded and colourful *D. Avril's Gold* 'Ray' HCC/OSCOV is currently available from Tinonee Orchids at \$12.00 a plant in 50mm tubes. I'd guess once this article comes out that they will not last long! Yes, they are slow growing, but worth the wait. There have also been a number of *D. Avril's Gold* hybrids made and marketed by a number of nurseries and enthusiasts. To date, none of these have flowered, and there are no registrations yet with *D. Avril's Gold* as a parent.

There were a number of other fine native hybrids and species on display, with Champion Australian Species going to a fine linebred example of *Dendrobium tetragonum* owned by Ray Clement. The exotic classes were well represented with some well-grown and flowered plants on display.

The weather stayed perfect throughout the day, with over \$750 raised from the raffle with the proceeds donated to Retina Australia. Apart from the orchids and obvious socialising, there was also an alpaca enclosure, bromeliads for sale, wine tasting and plenty to eat and drink.

That evening, some of us got to finally



Den. Avril's Gold 'Ziggy' (grower Ray Clement, Tinonee Orchids)

see through "that telescope" and caught a view of the planet Jupiter (with four of its moons in alignment), whilst later turning our attention to the full moon and Mars, which is the closest it has been to Earth in over 60,000 years! (Thanks Rob for the info.)

In all, a great weekend in what has become an important event on the orchid calendar. So mark the weekend 10th-11th

July 2004 in your diaries now. Thanks to Alan Blee, who kindly emailed me the photo of Michael Drobski's plant of the recently awarded *D. Avril's Gold* 'Brandon', and also Ray Clement and Mike Harrison for discussions on this hybrid.

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Den. Avril's Gold 'Brandon' AM/AOC-VOC 2003 (grower and photo Michael Drobski)

Bulbophyllum monanthum

by Jim Cootes

Big Plant, but.....

OK you species orchid growers, how many times have you purchased an orchid that is a large-growing plant, hoping that the flowers will be in ratio with the dimensions of the plant? Admit it, we all have, haven't we? Then the thing flowers and what do we get, tiny blooms. It happens on a regular basis, doesn't it?

Now don't get me wrong, most of my favourite orchids are what could be termed "miniatures." That is the plants are small and usually the flowers are too.

The old adage about "good things coming in small packages" is great when the plant is an *Amesiella monticola* or a *Sophranitis coccinea*. Both of these genera produce flowers that are large in comparison with the plant. It makes good sense to have little plants with big flowers. Look at the space you're saving.

I remember a long time back, during one of my many jaunts to the Philippines; I was out in one of the provinces looking for orchids. We were at a popular tourist destination and there were plenty of locally collected orchid species for sale. One of the vendors approached me and said she had plants of *Vanda sanderiana* for sale. Immediately the old ears pricked up because we were, at least, seven hundred kilometres (in a straight line) from the nearest populations of this magnificent orchid. I said I'd like to see the plants and was shown specimens of what, eventually proved to be *Sarcophyton pachyphyllum*; which has no resemblance to a *Vanda*, let alone *Vanda sanderiana*. The closest a *Sarcophyton* comes to a *Vanda* is that it is monopodial in growth habit.

Anyway, the plant of *Sarcophyton pachyphyllum* is large; leaves about 45 cm long by 3 cm wide by 6 mm thick; up to 8 leaves, which arch very gracefully, on the plant which stands maybe 50 cm tall. A most impressive plant indeed. Fortunately the plant flowers readily, even in Sydney, but the flowers are only about 5 mm across, at their widest point. Then again the flowers are produced on an upright inflorescence, that branches, with up to 300 blooms being the norm. Main problem, the really big plant with quite tiny flowers.

A year or so back I was wandering around Royale Orchids looking at some recently imported plants with Michael Harrison when we spotted a *Bulbophyllum* species we did not recognise. The plants were picked up to learn their identity, but they were not as labelled (heard it all before haven't we, species growers?) Anyway a couple of plants were purchased and brought home to await their blooming.



These plants were labelled as *Bulbophyllum macranthum*, a quite widely distributed species with a recognisable growth habit. The difference between our plants and *Bulbophyllum macranthum* was the size of the pseudobulbs and the habit of the rhizome. Usually in *Bulbophyllum macranthum* the pseudobulbs are up to 2.5 cm long by about 1.5 cm in diameter and the rhizome bears persistent bristles on the internodes from the decayed sheaths. The leaves are about 20 cm long by 5 cm wide and very thick and leathery.

The pseudobulbs of our unidentified species are up to 6 cm long by about 2.5 cm in diameter and the rhizome has no bristles on the internodes. The leaves are up to 22 cm long by 6 cm wide and of a fairly thin texture (the foliage certainly couldn't be called leathery).

Anyway this plant has finally bloomed for me and had been identified as *Bulbophyllum monanthum*. "Big deal," I hear you saying.

When I first noticed the flower I didn't know whether to laugh or cry. After caring for the plant for so long to be "rewarded" with such a tiny flower gave me mixed emotions. Still after spending the next couple of hours doing a description and photographing it I have really come to like this species a great deal. It has its own charm even if it is in miniature!

Well the interesting thing is that the flowers are probably the tiniest in the section *Sestochilus*, a section renowned for its large blooms with species such as *Bulbophyllum lobbii* and its relatives, *Bulbophyllum dearei*, *Bulbophyllum facetum*, just to mention a few.

The flower of *Bulbophyllum monanthum* is barely 1.5 cm across the petals, whereas some of its relatives, named above, are up to 8 cm across the widest point. Still the best thing about small flowers; they are usually produced in great profusion which still makes them eye-catching.

Jim Cootes

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SAROC Fair 2003

The South Australian Regional Orchid Council 3rd Orchid Fair held over the Queens birthday long weekend in June was another outstanding success with most affiliates taking part. Set up of the show took place on Friday evening, and on Saturday morning 40 plus judges had a very difficult task of judging plants and also displays. There were six commercial vendors who supported the fair giving everyone a chance to buy plants & orchid growing necessities.

There were a dozen displays; this included a display by the South Coast Species group. Those presented by the metropolitan clubs where Orchidaceous Society, South Coast Orchid Club, Gawler Districts Orchid Club and Cymbidium Club of SA. There were also 7 country exhibits presented by Port Lincoln, Port Augusta, Port Pirie, Mount Gambier, Millicent, Murray Darling & Sunraysia Clubs.

Each display was judged to choose champion display and the best orchid was chosen in each display. All plants were judged for the champion of the Fair. Champion of the Fair was a beautiful grown *Howeana* Mary Eliza 'Dee Pee' exhibited by Dave & Pat Harmer. The well-presented plant carried 4 arching inflorescences of yellow flowers with brown spotting, which was well admired by all. This year the SA Orchidaceous Society presented the champion display with over 80 plants and the champion orchid in the display was *Cymbidium* Elegant Elf 'Nan' grown by Colin & Nan Grigg. In addition, a plant of the species *Laelia gouldiana* received a cultural award, for growers Ted & Wilma Symes.

A dinner attended by members talking part in the fair was held on Saturday night during which certificates and sashes were presented to the growers of the champion orchids. This year our guest speaker was Ray Clement of Tinonee Orchids who gave an enlightening talk on his experience in orchid growing. It was great to see such enthusiasm of the member clubs of SAROC and also their support for the Fair.

Noel Oliver
Show Marshall, SAROC

Australian Orchid Research Volume 4
- A Review of *Pterostylis* (Orchidaceae)
by David L. Jones and Mark A. Clements
Softcover, 172mm x 248mm
ISBN 0-642549044

170 pages, 67 colour photographs,
numerous black & white photographs and
line drawings

Published by and available from the
Australian Orchid Foundation, 107
Roberts Street, Essendon, Victoria 3040.
AUD\$25.00 plus postage

This is the latest volume of Australian Orchid Research, a series of occasional publications published by the Australian Orchid Foundation. This volume deals with the deciduous terrestrial genus *Pterostylis*, known to many as "greenhood orchids".

This is the first major revision of this genus, being the culmination of over 25 years work and collaboration by the respected Australian botanical scientists David Jones and Mark Clements. The text is extremely thorough, and is accompanied by numerous line drawings, black and white illustrations and a colourful gallery of top quality photographs.

What were once included within the genus *Pterostylis* have now been dissected into 16 distinct genera. This treatment has been supported by DNA and embryology studies. As expected, such wholesale change will be subjected to resistance from some quarters. Personally, due to the degree of change and nomenclatural separation, I was surprised that most of the New Zealand species, such as *P. banksii*, remained as *Pterostylis*. However, most orchid enthusiasts that grow a few greenhoods should not despair, as many of their cultivated plants will not be affected.

Pterostylis curta is the Type species of the genus, so remains a *Pterostylis*. Similar single-flowered rosetted species such as *P. baptistii*, *P. nutans* and *P. pedunculata* remain in that genus.

There are three main stand-alone papers in this work, namely:

1. A Reassessment of *Pterostylis*
2. A New Classification of *Pterostylis*
3. A Synopsis of the Subtribe

Pterostylidinae

A names index, to crosscheck the new names that have been applied, as well as a full checklist of *Pterostylis* and related genera follow this.

This volume is a must for those who wish to keep up to date with the latest taxonomy of Australian orchids, as well as those particularly interested in the genus *Pterostylis* and related genera. In purchasing this text, you are also supporting the Australian Orchid Foundation, which has generously subsidised the price.

Images of Preservation

by Alan W. Stephenson

Softcover, 145mm x 210mm

ISBN 0-9581679-0-7

60 pages, numerous black & white photographs.

Published by Klimpton Press, NSW.

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Alan Stephenson is the Conservation Officer for the Australian Orchid Council, and has written numerous articles on Australian and exotic orchids in a number of orchid periodicals, including the *Australian Orchid Review*. In this small booklet, Alan presents a series of poems and first hand anecdotes about many of the native orchids indigenous to Shoalhaven region where he lives. There are a number of small black and white photographic cutouts of many of the orchids discussed

Images of Preservation

by Alan W. Stephenson

within its pages, which are mostly terrestrial species, although a number of epiphytes rate a mention.

The poems are well constructed, and all have an orchidaceous flavour, which makes for enjoyable reading. A colour photograph of the endangered species, *Prasophyllum affine*, appears on the front cover. I hope to see it in the flesh later this year, as efforts last year - due to the drought - failed to turn up any plants. Alan assures me that November is looking good!

This is a most inexpensive work, and one that I feel most orchid enthusiasts, especially those into our native flora would find most appealing and entertaining.

Le Genre Paphiopedilum

by William Cavestro

Softcover, 160mm x 242mm

ISBN 2-9508593-2-1

336 pages, 132 colour photographs, 70



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AOR 202

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AOR 201

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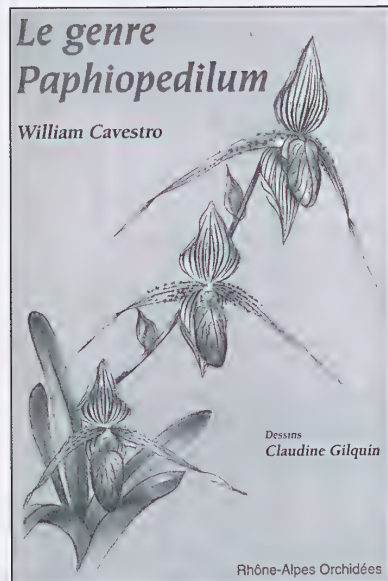
line drawings

Published by Rhone-Alpes Orchidees, Lyon, France.

Available from William Cavestro, 100 Allee de Chenaie, 38340 Voreppe. France Email: williamcavestro@upmf-grenoble.fr

EURO 55.00 (including postage)

This book is the most recent revision of the genus *Paphiopedilum*, the Asiatic slipper orchids, being published four years after Phillip Cribb's revised monograph. The text, written in French, also includes the latest identification keys, incorporating the species that have only recently been formally described.



A number of recently described species appear in this book, including *P. hangianum*, *P. intaniae*, *P. parnatatum*, *P. sugiyamanum* and *P. vietnamense*. These are all included among the 132 high quality colour photographs that adorn the book. Line drawings are also included of the individual blooms of many of the species. These are somewhat stylised, but you can certainly pick what species is being depicted before you look at the caption.

The purchase price is worth it for the pictures alone. Typical examples are shown for most of the species, as well as albinistic forms and horticulturally superior clones (generally of awarded plants in cultivation.) A couple of the captions I would certainly question. The plate captioned as *P. druryi*, appears to be a hybrid of that species with *P. insigne*. *P. druryi* is a most distinctive species that is rarely confused with any other. The recently described *P. parnatatum*, from the

Philippines, also has a "hybrid" look to it. The photograph labelled as *P. sanderianum* is actually *P. Prince Edward of York*, the man-made primary hybrid with *P. rothschildianum*. It was probably one of "those plants" from a Californian nursery, which ironically have now been highly awarded around the globe!

There is an extensive bibliography pre-

sented at the end of the book. This highlights the extensive research done by the author, as well as providing a number of obscure references. Despite the text being in French, I recommend this book to all species enthusiasts with an interest in Southeast Asian orchids, especially those keen on the slipper orchids from the genus *Paphiopedilum*.

Bob Zeller – Senior Athletics Champion

Well known and respected Taree orchid grower and judge Bob Zeller is noted for chasing down good orchids, but what readers may not know is that Bob is also an athletic champion. Bob was the Queensland State 100 yard sprinting champion back in 1956/57 and 1958/59, but had not competed for 40 years when he decided to make a comeback! He initially found the going tough; with torn muscles for about a year after recommencing training, but with the help of a great physiotherapist, Bob has been able to find some of his old form. Amazingly, after all these years, he has even maintained the same weight that he had in the 1950's.

At the New South Wales State Championships in March 2003, held at the Olympic Stadium at Homebush Bay, Bob, at age 67, became the 100m, 200m and High Jump Champion in the 65-69 age bracket. Later that month, at the Trans Tasman Masters, held at Newcastle, he was again High Jump Champion, and also took out Silver



Medals in both the 100m and 200m events.

In April 2003, at the Australian Masters Championships held in Perth, Bob won Bronze in the 200m and the High Jump and was a member of the 4 x 100m Gold Medal winning relay team, having to run the final leg.

Congratulations Bob on these fine achievements from all of your orchid-growing friends around the country.

DPB

Vale: Harry Spence

When Harry Spence was forced to leave Sydney in 1978 due to ill health, he had already been a member of the Orchid Society of New South Wales for a number of years and had attained the rank of Emeritus Judge.

Harry and his wife Joyce moved their orchid collections from Lane Cove to Mount Tamborine in southern Queensland. Joyce's main interest was paphiopedilums, while Harry grew a range of orchids from cymbidiums, catleyas to "soft-cane" dendrobiums.

While in Queensland, Harry travelled around the local area and northern New South Wales giving lectures on judging standards and "softcane" *Dendrobium* culture. At the 7th Australian Orchid Conference held in

Brisbane in August 1982 he presented a paper titled "Amateurs Look at Softcane *Dendrobium* Breeding" and at a show held in conjunction with that conference, put on an outstanding display of these colourful orchids, which I believe appeared on the front cover of an issue of the AOR.

Harry was one of the first to grow the "Yamamoto-style" *Dendrobium* hybrids from Hawaii in Australia, and then hybridised them with better plants from England and Europe.

Sadly, Harry passed away on the 13th May 2003 at Southport. Joyce predeceased him in March 2000.

Alan Alvis (Qld)
& Lloyd Woolnough (NSW)

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ACR 333



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ACR 048

Dockrillia – an alternate view

by Geoff Stocker

I enjoyed the recent article in the AOR by David Banks on *Dockrillia* (Brieger) and in particular thank you for stirring up the topic of whether the genus *Dendrobium* Sw. should be split or retained as a large genus. However, I am one of those north Queenslanders who (along with most of the rest of the orchid growers in the world) have yet to feel comfortable with the establishment from *Dendrobium* of a series of genera (both new and resurrected, and including *Dockrillia*) and thought that you and your readers may be interested to learn of the reasons (summarised below) for my current attitude to their use.

1. Clements and Jones (1996) noted that Brieger's treatment of the Dendrobiinae (Brieger 1981) has generally been rejected. However, they appear to accept many of Brieger's genera without actually stating which ones, although in subsequent text, it is apparent that *Dockrillia* was one of the genera they accepted. They justified their actions as follows (quote):-

"...the fact remains that many of the genera proposed are monophyletic, are readily defined and easily recognised. Our studies on mycorrhizal fungal associations, reproductive biology, embryology, protocorm morphology, pollination, floral morphology and vegetative habit, support the narrower interpretation of this group of orchids. This view is supported by cladistic analysis (Clements and Jones, in prep.)."

To the best of my knowledge, this evidence, crucial in deciding the merits of their decision to reestablish *Dockrillia*, has never been published.

2. By way of contrast, a great deal of DNA research into the relationships among the subtribe Dendrobiinae has been undertaken by Tomohisa Yukawa and associates. In Yukawa's most recent study available to me (Yukawa 2001) he examined 93 taxa of *Dendrobium* (*sens. lat.*), *Cadetia*, *Diplocaulobium* and *Flickingeria*. He found that the latter three genera were inseparable from *Dendrobium* (*sens. lat.*) and that while some sections may be monophyletic, many (including *Dendrobium*, *Amblyanthus*, *Callista*, *Dendrocoryne*, *Formosae*, *Gastridium*, *Oxyglossum*,

Pedilonum, *Phalaenanthe* and *Spathulata*) were not. The six species examined of Section *Rhizobium* (*Dockrillia* spp.) appeared to be monophyletic but were well imbedded in clade which included most of the Australasian species. Overall the DNA studies indicated that the value of established sections as the basis for new genera, appears suspect.

3. I cannot see a satisfactory resolution to the problems which would be caused by a premature splitting of *Dendrobium* (*sens. lat.*) without further detailed studies and in the meantime I prefer to adopt a conservative position. I also believe that these problems will not be solved by a piecemeal approach as relationships within the subtribe must be considered before new genera are adopted. However, on the basis of cur-

rent published DNA studies it would seem more logical to return *Cadetia*, *Diplocaulobium* and *Flickingeria* to *Dendrobium* than split the latter into a series of new and resurrected genera.

References

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- * Yukawa, T. 2001. Molecular phylogeny of *Dendrobium*. Proceedings of APOC7, Nagoya, Japan. 69-71.

G. C. Stocker PhD

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AOR 070

Attention AOR readers and Orchid Societies

"This and That" is a regular feature of the Australian Orchid Review and readers and Orchid Societies are invited to contribute any small news items of interest to Orchid lovers. The deadline for items can be found on page 3.

Address all correspondence to the Editor: "This and That", Australian Orchid Review, 14 McGill Street, Lewisham, NSW 2049. Email: bbadger@graphicworld.com.au

Native Orchid Show – Brisbane

The months of August and September are eagerly awaited each year by native orchid enthusiasts everywhere, as this is the time when those dependable favourites present their wonderfully perfumed heads of flowers for us to enjoy for all too short a time.

Each year seems to bring a significant improvement in the colour range and overall quality of these magnificent species and hybrids, as newer clones flower for the first time and previously previewed plants mature and who their best.

This year will be no exception, in fact cultural conditions in the SE Queensland area during the past 12 months lead us to anticipate an outstanding flowering season ahead.

The Australasian Native Orchid Society (Qld) KABI Group Inc. will be hosting their inaugural Australasian Native Species and Hybrids Show at the Lion's Hall, Lawnton Showgrounds, Gympie Road, Lawnton from 9am on Saturday and Sunday the 6th and 7th of September this year. This show will become an annual even and promises to be the major venue in Brisbane for exhibiting and viewing the best of native orchids in this area.

The latest seedlings and mature plants of

species and hybrids of all native genera will be available for purchase from a number of top vendors and refreshments will be available. A full range of orchid books and publications will also be on sale and of course, advice will be freely available from, many keen enthusiasts.

Eastern Districts Spring Orchid Show

Eastern Districts Orchid Society in Brisbane will hold its Annual Spring Show on Saturday, 20th September and Sunday, 21st September 2003 at Wondall Heights State School Hall, Wondall Road, Many West, Qld. The show will be open 8.30am-4.30pm on Saturday and 8.30am-3.30pm on Sunday.

As this is an open show, members from other societies are welcome to bench plants.

Visitors can expect to view a display of excellent quality plants and flowers, the genera variety and colour a sight to behold (not to mention the fragrance). There is also a floral art section.

Admission price is \$3.00 and concession price \$2.00.

There will be many species and hybrid plants for sale, many of them in bloom, in our plant sales, as well as our popular floral arrangements, at very reasonable prices.

Potting demonstrations are ongoing during the weekend and cultural advice is available from many experienced growers within our society.

Refreshments will be available as well as daily raffles and lucky door prizes.

For further information, please contact Show Captain, Steve Jarrett on 07 3206 1026.

Orchid Conservation Forum II

The Orchid Conservation Forum II will be held at the Royal Botanic Gardens Melbourne from 25 to 27 September 2003. It will be held

in association with the National Herbarium of Victoria's 150th Conference which will be held from the 29 September to 3 October 2003. The Orchid Conservation Forum II will precede the main conference from 25 to 27 September 2003. The Forum will be held at the Royal Botanic Gardens Melbourne.

It will bring together people with a diverse range of skills and knowledge, all working towards conserving the many threatened orchid species. Two days of presentation and discussion will review the progress that has been made, and discussions will help the formulation of continued relevant research and management practices.

Although the Forum will be held in Australia we welcome people working on orchid conservation in other parts of the world to attend.

To find out more about the Orchid Conservation Forum II, there is a website now accessible at <http://www.rbgvic.gov.au/conferences/orchidforum/index.html>

Sydney in Bloom – A festival of Gardens

Set in Sydney's beautiful Domain in Spring, Sydney in Bloom, will be held 24-28 September 2003 and showcase Sydney's leading floral and landscape designers, nurseries and horticultural experts to the public while tapping into Australia's passion for gardening and love of the outdoors.

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Vale: Harold Chapman

Orchid Growers of Queensland will be saddened to hear of the passing of Harold Chapman. Harold passed away at the Townsville Hospital on the 17th June, 2003 after a long illness. Harold joined the Townsville Orchid Society in 1970 and remained a member until recent times when failing health caused his retirement. At this stage, the Townsville Orchid Society extended to him "Honorary Membership" in view of his long and dedicated service.

Harold became a Judge of The Tropical Queensland Orchid Council and was a regular Registrant at TQOC Annual Conferences. He served as a committee member of The Townsville Orchid Society on numerous occasions and served as Vice President during my tenure as President, around the time of the 8th Australian Orchid Conference. At this Conference, Harold's dedication to duties and continuous hard work and support certainly contributed to the success of the Conference.

Harold Chapman will be remembered by the Members of the Townsville Orchid Society for his fine collection of cattleyas, his dedication of service to the Townsville Orchid Society and for the fact that he was always a gentleman. ■

Ray Robinson

NEW ORCHID HYBRIDS

March - May 2003 REGISTRATIONS

Supplied by the Royal Horticultural Society as International Cultivar Registration Authority for Orchid Hybrids

NAME	PARENTAGE	REGISTERED BY
AERIDIOVANDA Early Bird	Aerdk. Eric Hayes x <i>V. teres</i>	W. Morris
ALANGREATWOODARA Perian Sara	Agwa. Brian x <i>Z. Perrenoudii</i> Agwa. Brian x <i>Z. Alan Greatwood</i>	R. Stevens (George Black) R. Stevens (George Black)
ANGRANTHES Walnut Valley Star	Angam. <i>leionis</i> x <i>Aerth. grandiflora</i>	B. Rinke (O/U)
ANGULOCASTE Auburn Delight	Lyc. Auburn x <i>Angst. Wyld Delight</i>	Carter & Holmes (O/U)
ASCOCENDA Blue Tahourdin Chattalada Golden Peace Green Pearls Lani Beauty Louise Coffey Madame Chia Mahogany Gem Mary's Lemon Drop Memoria Eleanor Gardner Motes Mojave Paesam Ng	Ascd. Kamda x <i>V. tessellata</i> Ascd. Mahogany Gem x <i>Ascd. Guo Chia Long</i> V. Golden Chocker x <i>Ascd. Guo Chia Long</i> V. Charles Goodfellow x <i>Ascd. Charlie Barg</i> Ascd. Lani Bird x <i>Ascd. Fifteenth State Beauty</i> Ascd. Tubtim Velvet x <i>Ascd. Yip Sum Wah</i> Ascd. Madame Rattana x <i>Ascd. Guo Chia Long</i> Ascd. Luk Leap x <i>V. merillii</i> Ascd. Yoshiko Ise x <i>V. denisoniana</i> V. Memoria Lily Swanson x <i>Ascd. Tubtim Velvet</i> Ascd. Motes Kaalahari x <i>V. Rasri Gold</i> Ascd. Tubtim Velvet x <i>Ascd. Lek</i>	Motes D. Grove (Chao Praya Orch.) O. Diaz-Quirindongo (O/U) O. Diaz-Quirindongo (O/U) O. Diaz-Quirindongo (O/U) R. F. Orchids D. Grove (Chao Praya Orch.) O. Diaz-Quirindongo (O/U) Motes R. Stipe Motes D. Ng Ann Hoe
BEALLARA Beverston Beauty	Blira. Witches Cauldron x <i>Oda. Boviel</i>	R. Stevens (George Black)
BRASSOCATTLEYA Anita Gierok Astral Wolf Astronaut Kalpana Chawla Orchidom Purple Spotter Spotted Clown	Bc. Phil Andrews x <i>C. Donna Craig</i> B. [R.] <i>glauca</i> x <i>C. Bob Betts</i> C. Hawaiian Wedding Song x <i>Bc. Professor Yashpal</i> Bc. Cute Aza Bug x <i>C. Brabantiae</i> C. Lulu x <i>B. nodosa</i>	Carter & Holmes Santa Barbara (Crothers) Keshab Pradhan R. B. Cole R. B. Cole (Long Life [USA])
BRASSOLAELOCACTLEYA Andean Treasure Asuka Lady Brazilian Butterfly Brazilian Cayapo Brazilian Juliana Brazilian Precious Ruby Brazilian Pride Candy Pretty Diamond Charm Gold and Ruby Golden Butterfly Haleahi Fossil Hello Wrobel Itaqueira Big Star Itaqueira Sunset Joy Brown Kat Moulin Rouge Kat Pink Cool Kat Red Sea Mabel Waller Memoria Jose M. Aleman Memoria Takeo Yamaguchi	Bc. Erin Kobayashi x <i>Bc. Goldenzelle</i> Bc. Heathill x <i>Bc. Nippon Flag</i> Lc. Mildred Rives x <i>Bc. Rainha Da Floralia</i> Bc. Julio Barbero x <i>Bc. Haw Yuan Moon</i> Lc. Orange Gem x <i>Bc. Castle In Flames</i> Bc. George's Pride x <i>Lc. Kunia Kinie</i> Bc. Fortune x <i>Bc. Hawaiian Galaxy</i> Bc. Chinese Beauty x <i>Bc. Sanyung Ruby</i> Lc. Button Top x <i>Bc. Maikai</i> Bc. Ryan's Gold x <i>Lc. Lorraine Shirai</i> Bc. Memoria John Odom x <i>Bc. Tanagar</i> Bc. Waianae Leopard x <i>Bc. Golden Tang</i> Lc. Maria Cristina Miranda x <i>Bc. Captain Pessoa</i> Bc. Brazilian Red Star x <i>Bc. Memoria Takeo Yamaguchi</i> Lc. Lisa Ann x <i>Bc. Waianae Treasure</i> Bc. Erin Kobayashi x <i>Bc. Memoria Susan Hawkins</i> Bc. Smiling Eagle x <i>Bc. Shirofuna Ruby</i> Bc. Memoria Roselin Reisman x <i>Bc. Purple Ruby</i> Bc. Kat Pink Cool x <i>Bc. Bryce Canyon</i> Bc. Itaqueira Sunset x <i>Bc. Tassie Barbero</i> Bc. Nure Beach x <i>Bc. Campobello</i> Bc. Takeo Yamaguchi x <i>Lc. Nigerdale</i>	Tajima Orch. (O/U) Dogashima Tajima Orch. A. Pessoa A. Pessoa Tajima Orch. Tajima Orch. Hsu Chi-Shun M. Inamine Tajima Orch. Tajima Orch. (O/U) Hawaiian F.I. Nurs. (D. Sugita) A. Pessoa Tajima Orch. Tajima Orch. (G. Suzuki) M. J. Brown Kendolie Agr. Kendolie Agr. Kendolie Agr. Tajima Orch. Carter & Holmes Tajima Orch. (G. Suzuki)

NAME	PARENTAGE	REGISTERED BY
BRASSOLAELOCACTLEYA (continued)		
Nod Worthy Orchidom Green Lady Orchidom White Wings Oscar Dias Correa Rainha Da Floralia Serra De Itapeti Shinfong Dainty Shinfong Pert Ta Rana Sawhney Walton's Yellow Yumi Sakata	Lc. Charlesworthii x <i>B. nodosa</i> Bc. Victor Umi Peltier x <i>B. [R.] digbyana</i> Bc. Memory Lane x <i>Lc. Mercia</i> C. Sonia Altenburg x <i>Bc. Captain Pessoa</i> Bc. Pastoral x <i>Bc. Golden Bay</i> Bc. Chancemaker x <i>C. nobilior</i> Lc. Tropical Rainbow x <i>Bc. Tzeng-Wen Beauty</i> Bc. Maitland x <i>Bc. Purple Ruby</i> Bc. Captain Pessoa x <i>Lc. Ecstasy</i> Bc. The Baroness x <i>L. tenebrosa</i> Bc. Perfect Flora x <i>C. Summer Butterfly</i>	A. W. Burke (Lager) R. B. Cole R. B. Cole A. Pessoa Tajima Orch. (R. Altenburg) Tajima Orch. W. C. Hung W. C. Hung A. Pessoa A. W. Burke (R. Kieseewetter) Tajima Orch.
CATASETUM Casta Diva Cesar Perazolli Nimrod Ten Dragons	Cism. <i>pileatum</i> x Cism. <i>gladiatorium</i> ¶ Cism. <i>vincinum</i> x Cism. Fabio Nahas Pereira Cism. <i>sanguineum</i> x Cism. <i>incunum</i> [troutmannii] 1 Cism. Dragon's Teeth x Cism. <i>tenebrosus</i>	M. Bodle E. Perazolli M. Bodle F. Clarke
CATTLEYA Orchidom Brabant Rainha De Guararema	C. Pink Brabant x <i>C. Brabantiae</i> C. Summer Butterfly x <i>C. Mother Enid</i>	R. B. Cole Tajima Orch.
CATTLEYTONIA Haleahi Joy	Ctna. Why Not x Ctna. Maui Maid	Hawaiian F.I. Nurs. (D. Sugita)
COOKARA Silver Capri	Ctna. Capri x <i>Diadic. Silver Toy</i>	F. Clarke
CYMBIDIUM Autumn Sun Bubbles Chelo Lee Cruz Claret Vale Dawn Mist December Fling Devon's Fire Fairy Gold Garden Of Babel Golden Harrison Gorgeous Lips Harbledown Jessica Ching Mark Joint Venture Kickapoo Kingsdown Kusuda Bay Loch Eye Loch Glow Loch Meadie Loch Tummel Locha Spatz Love The Moon Magham Down Neil Pagano Palace Grill Penny's Worth Pink Electric Pixie Lace Regal Fire Rincon Peak Saharan Sunrise San Elijo Solana Star Space Explorers Spring Fling Squeegie Strathcroyde	Cym. Golden Elf x Cym. One Tree Hill Cym. Bangles x Cym. Splatters Cym. Sussex x Cym. Mighty Mouse Cym. Mariner x Cym. James Toya Cym. Sleeping Dawn x Cym. Sleeping Mist Cym. Summer Love x Cym. <i>insigne</i> Cym. Firewheel x Cym. <i>devonianum</i> Cym. <i>madidum</i> x Cym. Tweedle Dee Cym. <i>barbottum</i> x Cym. <i>devonianum</i> Cym. Flying Colors x Cym. James Tee Kirk Cym. Bo Jangles x Cym. Gilded Angel Cym. George Boulton x Cym. Tethys Cym. Putana x Cym. Augres Cym. Memoria Amelia Earhart x Cym. <i>sirens</i> 'Chin Niao' B. Mark Cym. Coraki x Cym. Icho Tower Cym. Lady Spring x Cym. Tweedle Dee Cym. Putana x Cym. Ngair Cym. Terama x Cym. Kusuda Shining Cym. Loch Meadie x Cym. Pontac Cym. Saint Aubins Bay x Cym. Goldrun Cym. Almeida x Cym. Red Beauty Cym. Saint Aubins Bay x Cym. Thurso Cym. Splatters x Cym. Pinata Cym. Gladys Whitesell x Cym. Sarah Jean Cym. Nip x Cym. Mighty Mouse Cym. Canterbury x Cym. <i>madidum</i> Cym. <i>ensifolium</i> x Cym. Golden Elf Cym. Mimi x Cym. <i>sanderate</i> Cym. Snow Court x Cym. Tethys Cym. Kirby Lesh x Cym. Pink Muse Cym. Bangles x Cym. Pinata Cym. Winter Fire x Cym. Hove Cym. Rivers Edge x Cym. Solana Rose Cym. Warona x Cym. Cariga Cym. Applejack x Cym. James Toya Cym. Solana Rose x Cym. Woody Wilson Cym. Khairpour x Cym. Cherry Cola Cym. Applejack x Cym. Yowie Flame Cym. Avant Garde x Cym. Last Tango Cym. Nip x Cym. Bay Sun	Paradise Nurs. (Easy Crow Orch.) L. Batchman Santa Barbara L. Batchman L. Batchman Santa Barbara Santa Barbara L. Batchman Santa Barbara Floriculture (A. Easton) L. Batchman D. Pulley (A. Easton) McBean's A. Velardi L. Batchman McBean's Mukoyama McBean's McBean's McBean's L. Batchman New Horizon Orch. McBean's A. O. S. (A. Easton) B. Mark Santa Barbara A. Velardi N. Porter L. Batchman W. Baylis (D. J. Mills) L. Batchman Santa Barbara L. Batchman D. Shigaki (A. Easton) L. Batchman New Horizon Orch. McBean's

NAME	PARENTAGE	REGISTERED BY
CYMBIDIUM (continued)		
Sutton Down Sweet Chantey	Cym. Red Beauty x Cym. Castle of Mey	McBean's
Ulluru	Cym. Solana Rose x Cym. Dorothy Rowe	L.Batcman
West's Down	Cym. Ashdown x Cym. Western Rose	D.J.Wain(Schaefer's)
Wild Woman	Cym. Firewheel x Cym. Pearl-Balks	McBean's
Wood Rose	Cym. Zippadea x Cym. Zippadedoda	New Horizon Orch.
	Cym. Woody Wilson x Cym. Vieux Rose	Santa Barbara
		L.Batcman
CYPRIPEDIUM		
Erika	Cyp. calceolus x Cyp. candidum	W.Frosch
Gabriela	Cyp. fasciculatum x Cyp. kentuckiense	W.Frosch
Inge	Cyp. parviflorum x Cyp. fasciculatum	W.Frosch
Johanna	Cyp. kentuckiense x Cyp. corrugatum	O.F.Robinson
Lois	Cyp. kentuckiense x Cyp. macranthos	O.F.Robinson
Mike	Cyp. kentuckiense x Cyp. x ventricosum [marschuricum]	O.F.Robinson
	nothovar virescens ['Alba']	P.Corkhill
Pixi	Cyp. calceolus x Cyp. tibeticum	
Tower Hill	Cyp. parviflorum var pubescens x	
	Cyp. macranthos var speciosum [Cyp. speciosum]	P.Keisling
Ursel	Cyp. fasciculatum x Cyp. henryi	W.Frosch
Werner Frosch	Cyp. henryi x Cyp. macranthos var hotel-atsumoriarum	K.H.Manthey
DENDROBIUM		
Arco Golden Dream	Den. Perozuki x Den. Dream	Arco Orch.
Atal Bhari Vajpayee	Den. noble x Den. Polka	Keshab Pradhan
Carol Dossetto	Den. Caesar x Den. helix	A.Groffen(Cairns Orch.)
Chandrika Bandaranayake	Den. Fifteenth State Beauty x Den. Suzanne Neil	Kusumapala
Chittaphan	Den. quantum x Den. Wunderbar's Baby	Sakdisin (Lusapanan)
Classic White	Den. Hirota White x Den. Classic Gem	W.Savage(O/U)
Felicis Bonza	Den. Lustrous x Den. Tie-Dye	Mel Brown (Down Under N.O.)
Felicia Sing	Den. Bobby Mesina x Den. Reha Zehran	T.Sing(S.Y.Alsagoff)
Felix Sing	Den. Cummins Girl x Den. May Neal	T.Sing
Geppert's Gold	Den. gouldii x Den. gracilicaule	H.Geppert
Gina Tesoniero	Den. Bobby Mesina x Den. Copper Queen	Kusumapala
Haleani Clouds	Den. Halehi Tranquility x Den. White Lightning	Hawaiian FI.Nurs.(D.Sugita)
Jacque Stocker	Den. lawesii x Den. chrysoternum ♀	Sakdisin(J.Stocker)
Jaiarak Chocolate	Den. Uthaiwan x Den. Bob Ching	K.Somboonphon
Jaiarak Copper	Den. Queen Cobra x Den. Ahulani Hinojosa	K.Somboonphon
Jaiarak Smart	Den. Uthaiwan x Den. Burana Charming	K.Somboonphon
Law Moi Hwa	Den. Tropilame x Den. Yellow Fairy	M.H.Law
Magenta Magic	Den. goldschmidtianum [miyakei] x Den. cuthbertsonii	D. & M.Crawford
Makahio Dream	Den. noble x Den. Spring Dream	J.K.Lau
Makahio Memehune	Den. Nagasaki x Den. Santana	J.K.Lau
Makahio Surprise	Den. Crystal Pink x Den. anosmum [superbum]	J.K.Lau
Massimo Ercolani	Den. Fifteenth State Beauty x Den. Bobby Mesina	Kusumapala
Nerine Chew	Den. White Fairy x Den. chrysoternum [suavissimum]	S.Y.Alsagoff(Woon Leng Nurs.)
Opal Magic	Den. pseudolacumatum x Den. subclausum	D. & M.Crawford
Orchidom Dark Star	Den. Kikuya x Den. bigibulum	W.Savage
Orchidom Duke	Den. Duke Blues x Den. Morningthp Ohashi	W.Savage
Orchidom Mother Stripes	Den. Sukawit x Den. Cheri Teresa	W.Savage
Orchidom Sweetness	Den. Sweet Lynn x Den. Michael Sado	W.Savage
Orchidom Thai Purple	Den. Thailand x Den. Michael Sado	W.Savage
Patrick Cillam	Den. Fruchs Blau x Den. Blue Ribbon	S.Y.Alsagoff
Perozuki	Den. Perch x Den. Oporozuki	Arco Orch.(O/U)
Ravichandrar	Den. Sri Sathya Sai Baba x Den. williamsianum	T.Sing
Sophie Bornie	Den. Sri-Rachia x Den. Hirota	J.Phua
Shi Sathya Sai Baba	Den. Golden Gull x Den. canaliculatum	J.Sing(O/U)
Shi Boon Leng	Den. Palolo Sunshine x Den. Palolo Sunshine	How Wai Ron
Treasure of Friendship	Den. Palolo Sunshine x Den. Alice Noda	M.Ramirez(Orch.of Waianae)
Uthaiwan	Den. Madame Uralwan x Den. Anchling Lubag	K.Somboonphon
Yellow Fairy	Den. White Fairy x Den. Anchling Lubag	M.H.Law
DIALAELOCATILEVA		
Silver Angel	Lc. Angel Love x Dialc. Silver Toy	F.Clarke
Silver Horace	Dialc. Silver Star x C. Horace	F.Clarke
Silver Mini	Lc. Mini Purple x Dialc. Silver Toy	F.Clarke
DORIOPSIS		
Forever Young	Dips. Purple Cem x Kl. [King.] delciosum [philippinensis]	Wirra Willa Orch.
DORTAENOPSIS		
Art Shades	Phal. Rio's Promise x Dips. Melba Miller	Phal. Golden Sun x Dips. King Shiang's Rose
Auspice's Red Sun	Phal. Golden Sun x Dips. King Shiang's Rose	Auspice Orch.
Betty Wasdon	Dips. Regal Velvet x Phal. Ralph Wasdon	H.P.Norton
Blushing Empress	Phal. Empress x Dips. London Bridge	Orch. Dominicana
Brenda Matthews	Dips. Sogo Manager x Phal. Brother Sara Gold	G.Hausermann
Brother Papa	Phal. Matou Rose x Dips. King Shiang's Rose	R.F. Orchids(Brother)
Brother Papa's Polkadot	Dips. Brother Papa x Phal. Brother Purple	R.F. Orchids(Brother)
Davis' Valentine	Dips. Kung's Valentine x Phal. New Eagle	R.F. Orchids(Brother)
Dorothy Ervin	Phal. Chicago Treasure x Dips. Blushing Snow	Bianchi-Davis(O/U)
Empress Finale	Phal. Empress x Dips. Pink Finale	Hausermann
Garnet Butterfly	Phal. Garnet Star x Dips. Neopolis	Orch. Dominicana
Gold Sovereign	Phal. Regal Bells x Dips. Goldmilla	Orch. Dominicana
Joyous Fable	Dips. Placidus Gold x Phal. Summer Joy	H.P.Norton
June Bug	Phal. Hausermann's Goldcup x Dips. Happy Smile	H.P.Norton
Kerria Stripe	Dips. Little Gem Stripes x Phal. verosa	John H.Miller
Leslye Gale	Dips. Sogo Manager x Phal. Ruyi Lih Stripes	Owens Orchids
Linda Lawrence	Phal. Brother Lawrence x Dips. Linda's Waltz	M.Soma
London Bridge	Dips. Sogo Manager x Dips. Modern Glean	G.Hausermann
Long Pride Pony	Dips. Long Pride Rose x Dips. Minho Princess	John Hutchinson
Long Pride Rose	Dips. Ta Bei Chou x Dips. King Shiang's Rose	Orch. Dominicana(O/U)
Memoria Columbia Crew	Dips. Winterbourne x Dips. Orglade's Space Base	Jui-Fang Liang
Memoria Michel Vacherot	Phal. Carmela's Wild Thing x Phal. Milva Dolcissimo	Jui-Fang Liang
Modern Glean	Dips. Modern Beauty x Dips. Pinlong Glean	H.P.Norton
Musick Surprise	Dor. pulcherrima x Phal. chibae ♀	Orch. Dominicana
Orchidom Bright Allure	Dips. Bright Kiss x Phal. Brecko Newallure	Orch. Dominicana
Orchidom Claribel	Dips. Autumn Sun x Phal. stuartiana	F.&M.Kaufmann
Orchidom Winter River	Phal. Winter Frank x Dips. Three Rivers	Orch. Dominicana
Orchidom Winter Swan	Phal. Winter Frank x Dips. Whistling Swan	Orch. Dominicana
Puff Queen	Dips. Hampshire Puff x Phal. Hakalau Queen	Orch. Dominicana
Red Peacock	Dips. Taida Salu x Phal. Salu Pecker	John Hutchinson
Ruey Li Beauty	Phal. Hsinying Lady x Dips. Formosa Rose	Auspice Orch.
Samantha Steffek	Phal. Twilight Sonata x Dips. Royal Frills	Ching Ann(Sheng-S.Chen)
San Damiano Stripes	Dips. Minho Stripes x Phal. Brother New Player	Hausermann
Sau Goo	Dips. Red Elf x Phal. Hausermann's Goldcup	J.L.Walker(O/U)
Sogo Chabtic	Phal. Golden Pecker x Dips. Anna-Larati Soekardi	E.Goo
Sofma Polka-Dots	Phal. Ever-spring King x Dips. Orglade's Puff	Sogo
Summer Rose	Dips. Kenneth Schubert x Phal. equistris	M.Soma
Summerfield Rose	Dips. Plum Rose x Dips. Happy Valentine	M.Soma
Sweetshati	Dips. Elmore's Sweetheart x Phal. Kuntrardi	Summerfield Orch.(O/U)
Taida Little Richard	Phal. Taida Richard x Dips. Taida Little Pixie	John Hutchinson
Taida Red Bird	Phal. Golden Sun x Dips. Ching Her Pearl	Taida
Taida Salu Pixie	Dips. Taida Salu x Phal. Carmela's Pixie	Taida
Taida Seven Pixie	Dips. Taida Little Pixie x Dips. Taida Seven Stripes	Taida
Taida Seven Stripes	Phal. Tinny Stripes x Dips. Okay Seven	Taida
Taisuco Carmine	Dips. Taisuco Bobbie x Dips. Sinica Sunday	Taisuco
Taisuco Claire	Dips. Lih Jiaq Beauty x Dips. Minho Bird	Taisuco
Taisuco Demi	Dips. Taisuco Stripes x Dips. Taisuco Pixie	Taisuco
Taisuco Gloria	Phal. Taisuco Glory x Dips. Taisuco Claire	Taisuco
Taisuco Iris	Phal. Brother Sandra x Dips. Taisuco Pixie	Taisuco
Taisuco Jil	Phal. Brother Sandra x Dips. Taisuco Pixie	Taisuco
Taisuco Stellar	Phal. Taisuco Fireball x Dips. Taisuco Pixie	Taisuco
Virgin Flame	Dips. Sinica Maple x Phal. Brother Pixie	Hideo Doi
Walnut Valley Blessed	Phal. Walnut Valley Treva x Dips. Blessed	M.C.Thompson
Wanda's Pink Lady	Phal. Lippegut x Dips. Linda's Waltz	J.Szczepanski(O/U)
White Peony	Dips. Orglade's Toast x Phal. Ching Her Prince	Ching Her
Winterbourne	Phal. Carmela's Wonder x Dips. Winter Crane	H.P.Norton(O/U)
Yin-Tung Wang	Dips. Taisuco Firebird x Phal. amabilis	E.S.Wright
Yu Pin Natsumo	Dips. Autumn Sun x Phal. Haur Jin Diamond	Neng-I Chang(H-K.Ming)
EPIDENDRUM		
Candle Valley	Epi. Twinkle Valley x Epi. Princess Valley	M.Inamine
Candy Valley	Epi. Peach Valley x Epi. Sakura Valley	M.Inamine
Cream Valley	Epi. Peach Valley x Epi. Tomorrow Valley	M.Inamine
Edward O'dell	Epi. boothianum x Epi. cochlearum	E.O.Russell
Fruits Valley	Epi. Peach Valley x Epi. Lion Valley	M.Inamine

NAME	PARENTAGE	REGISTERED BY
EPIDENDRUM (continued)		
Holy Valley	<i>Epi.</i> Peach Valley x <i>Epi.</i> Fantasy Valley	M.Inamine
Ivy Valley	<i>Epi.</i> Moon Valley x <i>Epi.</i> Twinkle Valley	M.Inamine
Liberty Valley	<i>Epi.</i> Secret Valley x <i>Epi.</i> Lion Valley	M.Inamine
Max Valley	<i>Epi.</i> Fantasy Valley x <i>Epi.</i> Magic Valley	M.Inamine
Melody Valley	<i>Epi.</i> Secret Valley x <i>Epi.</i> Tomorrow Valley	M.Inamine
Milly Valley	<i>Epi.</i> Peach Valley x <i>Epi.</i> Pearl Valley	M.Inamine
Palm Valley	<i>Epi.</i> Summer Valley x <i>Epi.</i> Tomorrow Valley	M.Inamine
Passion Valley	<i>Epi.</i> Fantasy Valley x <i>Epi.</i> Venus Valley	M.Inamine
Patricia Vander	<i>Epi. gracile</i> x <i>Epi. adenocalum</i> [remorale]	Carter & Holmes
Pony Valley	<i>Epi.</i> Queen Valley x <i>Epi.</i> Peach Valley	M.Inamine
Prism Valley	<i>Epi.</i> Moon Valley x <i>Epi.</i> Summer Valley	M.Inamine
Spice Valley	<i>Epi.</i> Crystal Valley x <i>Epi.</i> Moon Valley	M.Inamine
Sweet Valley	<i>Epi.</i> Oriental Valley x <i>Epi.</i> Princess Valley	M.Inamine
Tiny Valley	<i>Epi.</i> Pearl Valley x <i>Epi.</i> Moon Valley	M.Inamine
Wedding Valley	<i>Epi.</i> Princess Valley x <i>Epi.</i> Pearl Valley	M.Inamine
EPILAELIOCATILEYA		
Tiny Magic	<i>Lc.</i> Button Top x <i>Epc.</i> Kyoguchi	M.Inamine
GALEOPETALUM		
Midnight Magic	<i>Z.</i> Imagination x <i>Optm.</i> Koolau Rainbow	L.Batchman
GASTROPHAIUS		
Kaoru Oka	<i>Phaius longicornu</i> ¶ [hainanensis] x Gs. [Phaius] <i>tuberculosa</i> [tuberculosa]	W.Cortez
Kikuno	<i>Phaius longicornu</i> ¶ [hainanensis] x Gs. [Phaius] <i>pulchra</i> var. <i>perrieri</i>	W.Cortez
HAMEIWELLSARA		
Henry	<i>Z.</i> Alan Greatwood x <i>Hmwsa.</i> jilly	R.Stevens(George Black)
Jessica	<i>Hmwsa.</i> jilly x <i>Hmwsa.</i> Lizzie	R.Stevens(George Black)
HASEGAWARA		
Fiesta Love	<i>Hmwsa.</i> Alice Iwanaga x <i>Blc.</i> Love Sound	F.Clarke
HAWKINSARA		
Kat Golden Eye	<i>Crna.</i> Jamaica Red x <i>Slc.</i> Mahalo Jack	Kendolie Agr.(Long Life[USA])
IWANAGARA		
Apple Charm	<i>Lc.</i> Button Top x <i>Iwan.</i> Appleblossom	M.Inamine
Olympic Enri	<i>Iwan.</i> Appleblossom x <i>Blc.</i> Erin Kobayashi	F.Clarke
Olympic Sunrise	<i>Iwan.</i> Appleblossom x <i>Blc.</i> Love Sound	F.Clarke
Olympic Tom	<i>Iwan.</i> Appleblossom x <i>Lc.</i> John Tomaske	
KUHNARA *		
Black Knight	<i>Odcadm.</i> [Ctd.] Roger Cole x Lchs. <i>crocodilipes</i> ¶ [lampiflorus]	J.Dunkelberger
LAELIOCATONIA		
Jaiarak Jewel	<i>Lc.</i> Little Irene x <i>Crna.</i> Why Not	K.Sommoonphon
LAELIOCATILEYA		
Brazilian Buzios	<i>Lc.</i> Kunta Kinte x <i>Lc.</i> Jorge Sampaio	A.Pessôa
Brazilian Caripo	<i>Lc.</i> Brazilian Way x <i>G.</i> <i>granulosa</i>	A.Pessôa
Brazilian Charm	<i>C.</i> Summer Butterfly x <i>Lc.</i> Zuhro	Tajima Orch.
Brazilian Ocean	<i>C.</i> End x <i>Lc.</i> Brazilian Wings	A.Pessôa
Contessa Filippa	<i>C.</i> <i>guatemalensis</i> x <i>L.</i> <i>pumila</i>	R.Janke
Melody An	<i>L.</i> <i>ariceps</i> x <i>Lc.</i> Melody Fair	M.Inamine
Memora Jerry Rehfield	<i>C.</i> Dupreana x <i>Lc.</i> Indigo Mist	F.Methmann/ R.Umland(J.Rehfield)
Memoria Josefina Dünzelmann	<i>C.</i> Fort Motte x <i>Lc.</i> Trick or Treat	A.Morales
Orchidom Pink Puff	<i>Lc.</i> Mari's Song x <i>Lc.</i> Angel Heart	R.B.Cole
Orchidom Purple Angel	<i>Lc.</i> Angel Heart x <i>Lc.</i> Ruby	R.B.Cole
Peter Heuren	<i>Lc.</i> Gayle Wreath x <i>Lc.</i> Rubrythoglossa	B.Lyda(P.Heuren)
Princess of Horalia	<i>C.</i> Mother End x <i>Lc.</i> Mildred River	Tajima Orch.
Ruya Little Love	<i>Lc.</i> rapensis x <i>Lc.</i> Love Knot	W-C Hung
Shawna-Marie Joseph	<i>Lc.</i> Bole x <i>C.</i> Bonana	Le Borage
Susman Gene Shuffie	<i>Lc.</i> Maria Ozella x <i>Blc.</i> Meditation	R.Sussman
White Pegassas	<i>L.</i> <i>ariceps</i> x <i>Lc.</i> Zuhro	M.Inamine
NAME	PARENTAGE	REGISTERED BY
HYCASTE		
Chita Carnival	<i>Lyc.</i> John Ezzy x <i>Lyc.</i> skinneri	H.Nagai
Chita Dream	<i>Lyc.</i> <i>kimari</i> x <i>Lyc.</i> Chita Melody	H.Nagai
Chita Parade	<i>Lyc.</i> Chita Melody x <i>Lyc.</i> Wyld Sunset	H.Nagai
IYONARA		
Over Easy	<i>Smbc.</i> Jamaica Plenty x <i>L.</i> <i>anceps</i>	Santa Barbara
Proud Molly	<i>Lc.</i> Molly Tyler x <i>Schom.</i> [L.] <i>superbiens</i>	Santa Barbara
MAGLELLANARA		
Sweet Jennifer's Glow	<i>Brdm.</i> Shooting Star x <i>Mdlna.</i> Pagan Lovesong	G.Muramoto(O/U)
MASDEVALLIA		
Anna Chai	<i>Masd.</i> <i>velichiana</i> x <i>Masd.</i> <i>norops</i>	G.Staal(R.Thomson)
Falcon's Gold	<i>Masd.</i> Falcon Sunrise x <i>Masd.</i> <i>constricta</i>	Golden Gate
Golden Sunrise	<i>Masd.</i> Dean Haas x <i>Masd.</i> Falcon Sunrise	Golden Gate
Hot Stuff	<i>Masd.</i> <i>caotroera</i> x <i>Masd.</i> <i>venusta</i> ¶	Mountain Orch.
Patricia Fye	<i>Masd.</i> Night Shade x <i>Masd.</i> <i>hirtzi</i>	A.Barty
MILTONIA		
La Fosse	<i>Milit.</i> Blackberry Cream x <i>Milit.</i> Mont Rossignol	E.Young O.F.
La Garçonne	<i>Milit.</i> Tesson Mill x <i>Milit.</i> Bel Groule	E.Young O.F.
Les Mielles	<i>Milit.</i> Hamburg x <i>Milit.</i> Rouge Bouillon	E.Young O.F.
Mont Rossignol	<i>Milit.</i> Orkney x <i>Milit.</i> Gattontensis	E.Young O.F.
ODONTODA		
Bovell	<i>Oda.</i> Bo's Fire x <i>Oda.</i> Burning Bed	R.Stevens(O/U)
Charington	<i>Oda.</i> Charlesworthii x <i>Oda.</i> Arlington	J.Fang(O/U)
Hilo Glory	<i>Oda.</i> Durham Point x <i>Oda.</i> Charington	J.Fang(O/U)
San Damiano Spots	<i>Oda.</i> Focalo x <i>Odm.</i> Coupe Point	J.Walker(N.Powell)
ODONTOCIDIUM		
Chrome Leopard	<i>Odcadm.</i> [Ctd.] Roger Cole x <i>Orc.</i> [Zell] <i>onustum</i> [orustal]	J.Dunkelberger
Tiburon	<i>Odm.</i> <i>cardatum</i> x <i>Onc.</i> <i>leucochilum</i>	Golden Gate
ODONTOGLOSSUM		
Doctor Tom	<i>Odm.</i> Bogong x <i>Odm.</i> <i>nobile</i> [pscatorei]	Golden Gate
Richard Laphorne	<i>Odm.</i> Conner x <i>Odm.</i> Pumistor	McBean's
Roy Wittwer	<i>Odm.</i> Jim Mintsiveris x <i>Odm.</i> Venilia	Etheridge(R.Hamilton)
ONCIDIUM		
Aneka Bell	<i>Onc.</i> Newberry Dancer x <i>Onc.</i> Sniffen	Carter & Holmes
Crownfox Blush	<i>Onc.</i> Memoria Ralph Yagi x <i>Onc.</i> Stunner	R.F. Orchids
Crownfox Sunset	<i>Onc.</i> Kinnaree x <i>Onc.</i> Catherine Wilson	R.F. Orchids
Janet Tan	<i>Onc.</i> Vera Cruz x <i>Onc.</i> Serdang Cornel	S.T.Alsagoff
Krysta Lynn	<i>Onc.</i> Carol Oka x <i>Onc.</i> Lovely Hula Hands	C.Wilk
Orchidom Fairy Dancing	<i>Onc.</i> Fan Dancer x <i>Onc.</i> [Tolu.] <i>pulchellum</i>	W.Savage
Orchidom First Thrill	<i>Onc.</i> First Love x <i>Onc.</i> Orchidom Thrills	W.Savage
Orchidom Puff	<i>Onc.</i> <i>henekenii</i> x <i>Onc.</i> Puff	W.Savage
Orchidom Shady Lady	<i>Onc.</i> Sniffen x <i>Onc.</i> Orchidom Ladylike	W.Savage
Orchidom Tom's Beauty	<i>Onc.</i> Orchidom Beauty x <i>Onc.</i> Tom Wilson	W.Savage
Orchidom Treasured Love	<i>Onc.</i> First Love x <i>Onc.</i> Orchidom Treasure	W.Savage
PAPHIOPEDILUM		
Alsans Kassandra	<i>Paph.</i> Kay Rinaman x <i>Paph.</i> Sandra Lee	Svoboda
Artful Dodger	<i>Paph.</i> Candy Apple x <i>Paph.</i> Hellas	M.Bamber
Betty Burkham	<i>Paph.</i> Edna Ratcliffe x <i>Paph.</i> <i>lowii</i>	B.Thoms
Cora Collins	<i>Paph.</i> Jane Chun x <i>Paph.</i> <i>exul</i>	D.Eickhoff
Dale Edward Lawless	<i>Paph.</i> <i>purpureum</i> x <i>Paph.</i> <i>wardii</i>	G.Lawless(Breckinridge)
Frau Yamagata	<i>Paph.</i> <i>specierium</i> x <i>Paph.</i> <i>kolopakingii</i>	A.Yamagata
Hellas Jim	<i>Paph.</i> Hellas x <i>Paph.</i> Jim Iverson	N.Ohta(O/U)
Henny Penny	<i>Paph.</i> <i>superbiens</i> x <i>Paph.</i> <i>hennianstium</i>	N.Mochizuki(N.Hasegawa)
Krull's Jade	<i>Paph.</i> <i>molipense</i> x <i>Paph.</i> Wellesleyanum	Krull-Smith
Lawless Golden Tiger	<i>Paph.</i> Goldollar x <i>Paph.</i> <i>tigrinum</i>	G.Lawless(Breckinridge)
Lawless Jungle Journey	<i>Paph.</i> <i>hirsutissimum</i> x <i>Paph.</i> <i>hookerae</i>	G.Lawless(Breckinridge)
Lawless L'Africaine	<i>Paph.</i> Satchel Paige x <i>Paph.</i> <i>superbiens</i>	G.Lawless(Breckinridge)
Lawless Rothsauk	<i>Paph.</i> <i>rathschildianum</i> x <i>Paph.</i> Luk Luk	G.Lawless(Breckinridge)
Le Borage	<i>Paph.</i> Mont Ube x <i>Paph.</i> <i>charlesworthii</i>	E.Young O.F.
Mae Ellyn Rhodes	<i>Paph.</i> Peter Black x <i>Paph.</i> Mae Barbara	Svoboda
Magic Water	<i>Paph.</i> Voodoo Magic x <i>Paph.</i> Watercolor Artist	N.Mochizuki(N.Hasegawa)

NAME	PARENTAGE	REGISTERED BY
PAPHIOPEDILUM (continued)		
Marian's Pleasure	<i>Paph. mastersianum</i> x <i>Paph. Debbie Robinson</i>	M.Proffitt(T.Ott)
Mark's Pride	<i>Paph. Algonquin</i> x <i>Paph. micranthum</i>	B.Mark
Master Gilbertian	<i>Paph. Gilbert Blythe</i> x <i>Paph. mastersianum</i>	N.Mochizuki
Master Jeweller	<i>Paph. Jewelled Cicada</i> x <i>Paph. mastersianum</i>	N.Mochizuki(N.Hasegawa)
Master Stroke	<i>Paph. mastersianum</i> x <i>Paph. Ruby Gillis</i>	N.Mochizuki
Mont Les Vaux	<i>Paph. bellatulum</i> x <i>Paph. Greenstede</i>	E.Young O.F.
Mont Les Vaux	<i>Paph. helice</i> x <i>Paph. bellatulum</i>	E.Young O.F.
Pearly Master	<i>Paph. mastersianum</i> x <i>Paph. Pearl Song</i>	N.Mochizuki
Pope Saint Gregory	<i>Paph. Peula</i> x <i>Paph. hissarumum</i>	G.Lawless(Breckinridge)
Prague	<i>Paph. Tancaster</i> x <i>Paph. Great Pacific</i>	Svoboda(O/U)
Ryan's Love	<i>Paph. Raisin Pie</i> x <i>Paph. Mauldai</i>	Live Oak Orch.(O/U)
Sardine Storm	<i>Paph. Double Shot</i> x <i>Paph. Bill Wernitz</i>	N.Mochizuki(N.Tamaci)
Scarecrow	<i>Paph. sukhakuli</i> x <i>Paph. sangii</i>	N.Mochizuki(T.Root)
Sunshine Bell	<i>Paph. bellatulum</i> x <i>Paph. Sunshine Glory</i>	N.Mochizuki(N.Tannaci)
Sweet Justice	<i>Paph. Gilbert Blythe</i> x <i>Paph. Tonsuke</i>	N.Mochizuki
Taiwan	<i>Paph. rathichidulum</i> x <i>Paph. platyphylum</i> [stone var. <i>latifolium</i>]	O.Gruss(Ching Hua)
Tancaster	<i>Paph. Lancaster</i> x <i>Paph. Tanapore</i>	Svoboda(O/U)
Tryon	<i>Paph. Cocoa Cherry</i> x <i>Paph. sukhakuli</i>	Carter & Holmes(Orchid Zone)
Tuxedo Warrior	<i>Paph. Tuxedo Junction</i> x <i>Paph. Holdenii</i>	N.Mochizuki
White Sturgeon	<i>Paph. Conco-bellatulum</i> x <i>Paph. Muriel Constance</i>	N.Mochizuki(N.Tannaci)
Wönsner Vietnam Beauty	<i>Paph. bellatulum</i> x <i>Paph. vietnamense</i>	F.Glanz
Yamazaki's Spirit	<i>Paph. Dunkirk</i> x <i>Paph. British Bulldog</i>	T.Aoyagi(M.Yamazaki)
PARAPHALAEONOPSIS		
Janet Anthony	<i>Pps. [Phal.] serpentina</i> x <i>Pps. [Phal.] Boediardjo</i>	T.Sng(O/U)
PERRIERAARA		
Nancy Mountford	<i>Rhds. Thai Noi</i> x <i>V. Motes Nut Brown</i>	Motes
PHALUS		
Masako	<i>Phal. longicornu</i> ♀ [Thainensis] x <i>Phal. grandifolius</i>	W.Cortez
PHALAEONOPSIS		
Abendor	<i>Phal. Abendrot</i> x <i>Phal. Pink Splendor</i>	Orch. Dominicana
Abunda-Flora's White Butterfly	<i>Phal. Hilo Pink</i> x <i>Phal. Stanwell Gerry</i>	D.Cranford(O/U)
Accordberries	<i>Phal. Brother Accord</i> x <i>Phal. Pearlberries</i>	John Hutchinson
Anheim Nugget	<i>Phal. Little Nugget</i> x <i>Phal. Golden Amboin</i>	John H.Miller
Anthem Surprise	<i>Phal. Zora Amato</i> x <i>Phal. Brother Rose</i>	John H.Miller
Auspice's Gold	<i>Phal. Chinguey's Tiger</i> x <i>Phal. Salu Peoker</i>	Auspice Orch.
Be Culicatan	<i>Phal. Be Tris</i> x <i>Phal. Culicatan</i>	R.B.Cole(O/U)
Celebes Beauty	<i>Phal. Becky Coxwell</i> x <i>Phal. Zuma's Pixie</i>	R.&E.Coxwell
Cathy McKown	<i>Phal. Soroa Celebration</i> x <i>Phal. Hausermann's Charm</i>	Rage O.N.
Chebes Beauty	<i>Phal. amabilis</i> x <i>Phal. celebensis</i>	Hou-Tse Liu
Ching Her Perfume	<i>Phal. Taipei Gold</i> x <i>Phal. cornu-cervi</i>	Chew Tiek San
Crystal Candy	<i>Phal. Auckland Sentra</i> x <i>Phal. Small Chili</i>	Ching Her
Cutie Elf	<i>Phal. Happyface</i> x <i>Phal. Timothy Christopher</i>	M.Soma
Dana Dazzle	<i>Phal. Taisuco Suzanne</i> x <i>Phal. equestris</i>	M.Soma(T.Nakamura)
Diamond Beauty	<i>Phal. Memoria Dana Lepier</i> x <i>Phal. Leucadia Dazzle</i>	John H.Miller
Don Buchanan	<i>Phal. Chinguey's Beauty</i> x <i>Phal. Haur Jin Diamond</i>	Auspice Orch.
Dou-dii Golden	<i>Phal. Golden Amboin</i> x <i>Phal. Brother Lawrence</i>	Orchid Alley
Dou-dii John	<i>Phal. Ching Her Peoker</i> x <i>Phal. Taipei Gold</i>	Ching Her
Dou-dii Pearl	<i>Phal. Big Peoker</i> x <i>Phal. Sogo John</i>	Ching Her
Dou-dii Perfume	<i>Phal. Chinguey's Beauty</i> x <i>Phal. Dou-dii Rose</i>	Ching Her
Dou-dii Prince	<i>Phal. Golden Peoker</i> x <i>Phal. Salu Peoker</i>	Ching Her
Dou-dii Sentra	<i>Phal. Big Peoker</i> x <i>Phal. Ching Her Prince</i>	Ching Her
Eliza Lucas	<i>Phal. Golden Peoker</i> x <i>Phal. Mary Brooks</i>	H.P.Norton
Elizabeth Hayden	<i>Phal. Formosa Best Girl</i> x <i>Phal. World Class</i>	J.Hayden
Eva's Stripes	<i>Phal. Eva Ronquillo</i> x <i>Phal. Brazilian Stripes</i>	J.Sostrieh(O/U)
Ferd Hecke	<i>Phal. Rock Hill</i> x <i>Phal. Taipei's Gem</i>	S.Pridgen
Giant Empress	<i>Phal. gigantea</i> x <i>Phal. Empress</i>	Orch. Dominicana
Green Canyon Susan	<i>Phal. Green Canyon Flora</i> x <i>Phal. Hakalau Queen</i>	P.Croezen
Greenscape	<i>Phal. Green Dream</i> x <i>Phal. Patina Verde</i>	John H.Miller
Haur Jin Fancy	<i>Phal. Chinguey's Blood-red Sun</i>	Ching Ann
Haur Jih Song	<i>Phal. Black Rose</i> x <i>Phal. Dou-dii Golden Princess</i>	Ching Ann
Ida Cantbelieveit	<i>Phal. Catlin</i> x <i>Phal. Ida Fukumura</i>	R.Hatcher
PHALAEONOPSIS (continued)		
Iphi Memory	<i>Phal. florensia</i> x <i>Phal. javanica</i>	Phal. Memoria Edith Weymouth x Phal. Malibu Imp
Java Flores	<i>Phal. Brother Amaket</i> x <i>Phal. Kuntrarti Rashathi</i>	Phal. Lemong Peel x Phal. Golden Duplicate
Ketshati	<i>Phal. Hawaiian Gem</i> x <i>Phal. Be Culicatan</i>	Phal. Wailani x Phal. gibbosa
Lemon Gift	<i>Phal. Long Pride Snow Golden Heart</i> x <i>Phal. Makl Watanabe</i>	Phal. Long Pride Snow Golden Heart x Phal. Makl Watanabe
Little Tenderness	<i>Phal. Malibu Real</i> x <i>Phal. venosa</i>	Phal. Malibu Real x Phal. venosa
Long Pride First Love	<i>Phal. Visionary</i> x <i>Phal. Pell-Mell</i>	Phal. Visionary x Phal. Pell-Mell
Malibu Sohma	<i>Phal. Summit Frosty Jewel</i> x <i>Phal. Malibu Melinda</i>	Phal. Summit Frosty Jewel x Phal. Malibu Melinda
Margaret Uppold	<i>Phal. Sweet Memory</i> x <i>Phal. Zuma Garnet</i>	Phal. Sweet Memory x Phal. Zuma Garnet
Mawoomba White	<i>Phal. Spicy Stripes</i> x <i>Phal. Toshio Fukumura</i>	Phal. Spicy Stripes x Phal. Toshio Fukumura
Melwinda's Jewel	<i>Phal. Makl Watanabe</i> x <i>Phal. Martin Engl</i>	Phal. Makl Watanabe x Phal. Martin Engl
Memoria David Coo	<i>Phal. Ming-Hsing Mount Snow</i> x <i>Phal. Taipei Gold</i>	Phal. Ming-Hsing Mount Snow x Phal. Taipei Gold
Memoria Evelyn Wales	<i>Phal. Cataracte</i> x <i>Phal. manni</i>	Phal. Cataracte x Phal. manni
Memoria Ramona Gaines	<i>Phal. Makl Watanabe</i> x <i>Phal. Mary Brooks</i>	Phal. Makl Watanabe x Phal. Mary Brooks
Ming-Hsing Green Apple	<i>Phal. Kyoko Takada</i> x <i>Phal. Donsan Rose</i>	Phal. Kyoko Takada x Phal. Donsan Rose
Miva Rambolier	<i>Phal. Chih Shang's Stripes</i> x <i>Phal. Sierra Rose</i>	Phal. Chih Shang's Stripes x Phal. Sierra Rose
No War	<i>Phal. Crystelle Smith</i> x <i>Phal. Land O' Cotton</i>	Phal. Crystelle Smith x Phal. Land O' Cotton
Orchidom Candy Cane	<i>Phal. Mishima Frost</i> x <i>Phal. Side Line</i>	Phal. Mishima Frost x Phal. Side Line
Orchidom Crystal Cotton	<i>Phal. Universal Dream</i> x <i>Phal. Taipei Gold</i>	Phal. Universal Dream x Phal. Taipei Gold
Orchidom Frost Line	<i>Phal. Golden Peoker</i> x <i>Phal. Empress</i>	Phal. Golden Peoker x Phal. Empress
Orchidom Gold Dream	<i>Phal. Big Berg</i> x <i>Phal. Florida Snow</i>	Phal. Big Berg x Phal. Florida Snow
Orchidom Harlequin	<i>Phal. Snow Moon</i> x <i>Phal. Side Line</i>	Phal. Snow Moon x Phal. Side Line
Orchidom Ice Berg	<i>Phal. Clash of Titans</i> x <i>Phal. Sweet Revenge</i>	Phal. Clash of Titans x Phal. Sweet Revenge
Orchidom Ilona	<i>Phal. Salu Leopard</i> x <i>Phal. Brother Pirate King</i>	Phal. Salu Leopard x Phal. Brother Pirate King
Orchidom Lemon Aid	<i>Phal. Jefferson Snow</i> x <i>Phal. Side Line</i>	Phal. Jefferson Snow x Phal. Side Line
Orchidom Leopard King	<i>Phal. Summit Blusher</i> x <i>Phal. Magic Spots</i>	Phal. Summit Blusher x Phal. Magic Spots
Orchidom Side Snow	<i>Phal. Carmela's Wild Thing</i> x <i>Phal. Brother Danseuse</i>	Phal. Carmela's Wild Thing x Phal. Brother Danseuse
Orchidom Summit Spots	<i>Phal. Winter Frank</i> x <i>Phal. Side Line</i>	Phal. Winter Frank x Phal. Side Line
Orchidom Wild Spots	<i>Phal. Brother Passat</i> x <i>Phal. Kuntrarti Rashathi</i>	Phal. Brother Passat x Phal. Kuntrarti Rashathi
Orchidom Winter Side	<i>Phal. Jade</i> x <i>Phal. Irish Mist</i>	Phal. Jade x Phal. Irish Mist
Passalshati	<i>Phal. Bues Lih Stripes</i> x <i>Phal. Jazzy</i>	Phal. Bues Lih Stripes x Phal. Jazzy
Patina Verde	<i>Phal. Bues Lih Jewel</i> x <i>Phal. Ho's Dreamy Jade</i>	Phal. Bues Lih Jewel x Phal. Ho's Dreamy Jade
Patricia DeVoll Haynes	<i>Phal. John Ewing</i> x <i>Phal. Tainan's Amboman</i>	Phal. John Ewing x Phal. Tainan's Amboman
Peter's Green Jade	<i>Phal. Jordan's Pixie</i> x <i>Phal. Stripes and More</i>	Phal. Jordan's Pixie x Phal. Stripes and More
Peter's Rose	<i>Phal. Puppy Love</i> x <i>Phal. Sogo Lit-Angel</i>	Phal. Puppy Love x Phal. Sogo Lit-Angel
Pixie Stripes	<i>Phal. Brother Purple</i> x <i>Phal. Formosa Stripes</i>	Phal. Brother Purple x Phal. Formosa Stripes
Puppy Angel	<i>Phal. Hakalau Queen</i> x <i>Phal. Miva Dolcissimo</i>	Phal. Hakalau Queen x Phal. Miva Dolcissimo
Purple Stripes	<i>Phal. Rong Guan Grape</i> x <i>Phal. Kuntrarti Rashathi</i>	Phal. Rong Guan Grape x Phal. Kuntrarti Rashathi
Queen Cissimo	<i>Phal. Teryuo Takada</i> x <i>Phal. Donsan Rose</i>	Phal. Teryuo Takada x Phal. Donsan Rose
Rongshati	<i>Phal. Salu Sun</i> x <i>Phal. Ching Her Buddha</i>	Phal. Salu Sun x Phal. Ching Her Buddha
Sakurahime	<i>Phal. Dou-dii Auckland Sun</i> x <i>Phal. Chinguey's Pride</i>	Phal. Dou-dii Auckland Sun x Phal. Chinguey's Pride
Salu Apple	<i>Phal. Golden Peoker</i> x <i>Phal. Green King</i>	Phal. Golden Peoker x Phal. Green King
Salu Buddha	<i>Phal. Golden Sun</i> x <i>Phal. Ching Her Prince</i>	Phal. Golden Sun x Phal. Ching Her Prince
Salu Goddess	<i>Phal. Yellow Princess</i> x <i>Phal. Ching Her Prince</i>	Phal. Yellow Princess x Phal. Ching Her Prince
Salu Grape	<i>Phal. Ching Her Goddess</i> x <i>Phal. Ching Her Prince</i>	Phal. Ching Her Goddess x Phal. Ching Her Prince
Salu Jadeite	<i>Phal. Ching Her Gelb Canary</i> x <i>Phal. javanica</i>	Phal. Ching Her Gelb Canary x Phal. javanica
Salu Matchmaker	<i>Phal. Micro Nova</i> x <i>Phal. Malibu Mascot</i>	Phal. Micro Nova x Phal. Malibu Mascot
San Shia Sunrise	<i>Phal. Sierra Gold</i> x <i>Phal. Pearlberries</i>	Phal. Sierra Gold x Phal. Pearlberries
Sards Micro Glow	<i>Phal. Taisuco Snow</i> x <i>Phal. Kaala Moon</i>	Phal. Taisuco Snow x Phal. Kaala Moon
Sierraberries	<i>Phal. Timothy Christopher</i> x <i>Phal. Golden Peoker</i>	Phal. Timothy Christopher x Phal. Golden Peoker
Snow Moon	<i>Phal. venosa</i> x <i>Phal. Be Iris</i>	Phal. venosa x Phal. Be Iris
Sogo Lovely	<i>Phal. Puppy Love</i> x <i>Phal. Timothy Christopher</i>	Phal. Puppy Love x Phal. Timothy Christopher
Sohma Charm	<i>Phal. Malibu Real</i> x <i>Phal. equestris</i>	Phal. Malibu Real x Phal. equestris
Sohma Puppy	<i>Phal. Sierra Gold</i> x <i>Phal. Brother Passat</i>	Phal. Sierra Gold x Phal. Brother Passat
Sohma Real	<i>Phal. Eva's Stripes</i> x <i>Phal. Spica</i>	Phal. Eva's Stripes x Phal. Spica
Sohma Topaz	<i>Phal. Super Stupid</i> x <i>Phal. Brother Pirate King</i>	Phal. Super Stupid x Phal. Brother Pirate King
Spicy Stripes	<i>Phal. Orchidview Sunsplash</i> x <i>Phal. Pearlberries</i>	Phal. Orchidview Sunsplash x Phal. Pearlberries
Stupid Brother	<i>Phal. Brother Supersonic</i> x <i>Phal. Kuntrarti Rashathi</i>	Phal. Brother Supersonic x Phal. Kuntrarti Rashathi
Sunberries	<i>Phal. Suzana Wijant</i> x <i>Phal. Brother Passat</i>	Phal. Suzana Wijant x Phal. Brother Passat
Supershati	<i>Phal. Taida Pink</i> x <i>Phal. Sogo Mini Dog</i>	Phal. Taida Pink x Phal. Sogo Mini Dog
Suzie Passat	<i>Phal. Ever-spring King</i> x <i>Phal. Taida Sweet</i>	Phal. Ever-spring King x Phal. Taida Sweet
Taida Dog	<i>Phal. Taisuco Sheen</i> x <i>Phal. amabilis</i>	Phal. Taisuco Sheen x Phal. amabilis
Taida Sweet King	<i>Phal. Koyo Takada</i> x <i>Phal. Teryuo Takada</i>	Phal. Koyo Takada x Phal. Teryuo Takada
Taisuco Mirth	<i>Phal. Tarragone</i> x <i>Phal. tetraspis</i>	Phal. Tarragone x Phal. tetraspis
Takada's Pixie		
Tarra Tetra		

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GROWING ORCHIDS

David P. Banks

Orchids have fascinated people for years. Breathtakingly beautiful, exotic, surrounded by mystery and thought to be difficult to grow by home gardeners. David P. Banks takes the guesswork out of growing orchids by providing practical advice based on over thirty years of experience.

Growing Orchids is an up-to-date, comprehensive and informative guide to cultivating these intriguing plants. Included is information on housing orchids, temperature and watering requirements, suitable potting materials, seedling care and an extensive section on orchid propagation.

Discover the world of orchids with the extensive list of 100 different orchid genera and descriptions of over 400 species. Over 100 stunning colour photographs, including many rare and recently discovered species, showcase the tremendous variation found throughout the orchid kingdom.

David P. Banks has an extensive collection of species and hybrid orchids, and operates the nursery Hills District Orchids. He is a popular lecturer on various aspects of orchids and their cultivation, at meetings and conferences in Australia and abroad. His articles and award-winning photographs have been published to international acclaim in a variety of orchid journals and books. David P. Banks is the editor of the Australian Orchid Review.

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COOL FLOWERING ORCHIDS THROUGHOUT THE YEAR

by Ross Macdonald

Ross Macdonald is a highly respected orchid grower and photographer from the North Island of New Zealand. This volume is devoted to cool growing orchid genera, which are easy to cultivate in New Zealand and southern Australia. Growers in tropical areas should not be discouraged, as many of these orchids are indeed adaptable and will grow in a range of climates. Andy Easton has written the foreword. Ross has devoted the first few pages of the book to cultural hints, which are down to earth and give practical information on the basics of orchid cultivation.

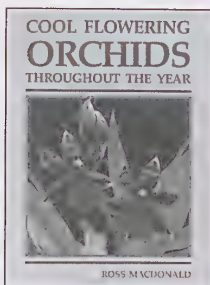
Basically this is a pictorial book with over 300 full colour photographs, covering a similar number of orchid species and hybrids. The quality of both the photographs and the colour reproduction is impressive. All of the orchids have been captured using available sunlight and there is no flash photography. There is a wide range of orchid genera covered with particular emphasis placed on cymbidiums, dendrobiums, laelias, masdevallias, the Odontoglossum alliance and Paphiopedilum.

The photographs are arranged in four chapters, referring on their main blooming season. The use of seasons ensures the text is also applicable to growers in the northern hemisphere.

This inexpensive book is exceptional value and importantly is written by someone who knows and grows these orchids. I thoroughly recommend this book to orchid growers, as it will be of great value to both novice and experienced enthusiasts.

144 pp. 242mm x 168mm
Softcover.

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MORE FLOWERING ORCHIDS THROUGHOUT THE YEAR

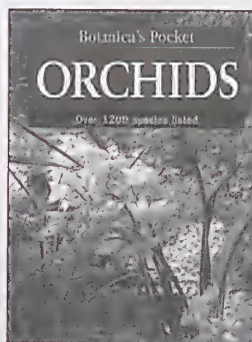
by Ross Macdonald

This is the sister volume to Cool Flowering Orchids throughout the Year. It is in the same format and style as the previous book, but also includes some genera that would require artificial heating in cooler climates. This volume covers a further 314 orchid species and hybrids with 344 colour plates. Both texts are highly recommend to all orchid fanciers; particularly newcomers who wish to see an array of delightful flowers that they could grow.

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BOTANICA'S POCKET ORCHIDS

Creative Consultants: Bill Lavarack,
Wayne Harris

Consultants: Gary Yong Gee,
Howard Wood, Wolfgang Rysy

Botanica's Pocket Orchids is the fifth book in the highly successful Botanica's series. This superbly illustrated reference book contains a wealth of information to help every gardener grow the perfect orchid.

Authoritative and practical with easy-to-understand text, Botanica's Pocket Orchids provides comprehensive information on colour, propagation, planting and flowering. With information

on planning and selection, climate, growing conditions, watering and feeding, it is the ideal guide wherever you live.

608 pages, colour.

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WHAT ORCHID IS THAT?

Edited by Alec Pridgeon

The orchid is one of the most passionately cultivated flowers world-wide, and for centuries it has been a symbol for the exotic and mysterious in the human imagination. As the brilliant photographs in this book show, the shapes, hues and textures of many of these extraordinary flowers continue to produce a shock of wonder in the viewer.

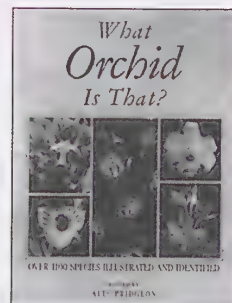
This book will delight everyone, from the gardener with a casual interest in orchids, to the confirmed enthusiast. It takes in a wide spectrum of orchid genera and more than 1100 species common in cultivation, presented by an international team of experts.

The first section, by the General Editor, Alec Pridgeon, introduces orchid habitat, distribution, names and classification, hybrids, pollination, how to grow orchids and control pests and diseases, and orchid conservation.

The alphabetical section, "Orchids A-Z", includes descriptions, names and synonyms, geographic distribution, notes on culture, and photographs drawn from collections around the world, showing the best-known species in cultivation.

Whether you are buying, growing or just looking, this is the ultimate guide to orchids.

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ORCHIDS IN YOUR

GARDEN

How to grow orchids in the backyard
Robert Friend

It sounds too good to be true, but orchids are as easy to grow in the backyard as a lawn or a bed of roses. Despite their exotic reputation, the everyday gardener can grow orchids without special pots or greenhouses.

The book shows you how to introduce orchids into the garden, by attaching them to trees, fixing them on rocks and walls, or planting them in garden beds. With more than 150,000 species and hybrids of orchids in the world, there are plants suitable for every garden.

Robert Friend draws on a lifetime's experience with orchids to explain how to choose the right orchid for your climate and how to landscape orchids in different types of gardens. Ranging from tropical to cool climate areas, from large acreages to small courtyard gardens, almost every backyard can enjoy the best of one of nature's wonders.

144 pages, Colour and B&W.

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LYCASTE ORCHIDS -

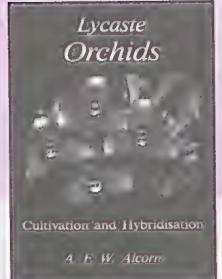
Cultivation and Hybridisation
A.F.W. Alcorn

Lycaste orchids are easy to grow, and they produce flowers that range from the beautiful to the bizarre. No book previously has provided detailed cultural requirements of the Lycaste, and this book should fill that gap, and encourage new growers to take up the cultivation of this beautiful genus. A section on hybridising contains valuable information on inheritance and genetics that will benefit any hybridiser, not just the grower of lycastes, as well as helpful hints on how to avoid pitfalls in your hybridising program.

Michael Hallett, a friend of Fred Alcorn for a number of years, co-wrote this book with Fred and has completed it posthumously. He has a background in genetics, research and botany, and a passion for plants, especially orchids.

237 pages, colour and B&W.

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GROWING PHALAENOPSIS AT HOME
James Neal

This book is essential reading and reference for any person who grows, or is intending to grow, Phalaenopsis.

Jim, in a simple and easily understood style, explains and elaborates on light conditions, watering, temperatures, fertilisers, pests and diseases.

Explanations of the way Phalaenopsis are named and the implications of growing seedlings, illustrate some of the more difficult ideas for the layman to understand.

The colour photography illustrates beautifully the topics under discussion and the orchid names are supplied, where necessary, as a caption.

The illustrations drawn by Jim's son Jamie are pertinent and succinct and make the subject more easily understood.

56 pages, colour and B&W.

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DENDROBIUM KINGIANUM:

A Unique Australian Orchid

Peter B. Adams and Sheryl D. Lawson

This book takes an innovative approach to the appreciation of an orchid species and breaks new ground in species monographs. Many of the orchid books available today take a dry formula approach to their topic and frequently present in another form information that is already available. This monograph provides an easily-read, comprehensive treatment of the species encompassing the interests of research scientists, horticulturalists, breeders and hobbyists, including beginners.

Covers history, biology, breeding, taxonomy, hybridisation, and culture. Has sections on award-winning plants, and shows how to develop specialist and competitive collections. Includes a register of over 300 significant plants.

197 pages, over 180 in full colour.

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SARCOCHILUS ORCHIDS OF AUSTRALIA

Walter T. Upton

Sarcochilus Orchids of Australia is the first book to cover all aspects of species of the genus Sarcochilus. Compact plants of great floral beauty with ease of culture, they are mostly cool to cold growing, requiring limited space, and for these reasons are quickly becoming the orchid of the future.

The book gives each individual species a separate entry, with information on its history, synonyms, distribution, habitat, cultivation and hybrids, along with a drawing showing the main parts of the plant and

flower, plus a colour plate providing an easy means of identification.

Hybridising, including intergenerics, is dealt with in detail - most registered hybrids being accompanied by a colour plate. Other chapters include pollination, seed raising and cultural information for the home grower.

This is Walter T. Upton's third book and is a companion to his very popular and informative Dendrobium Orchids of Australia.

119 pages, colour and B&W.

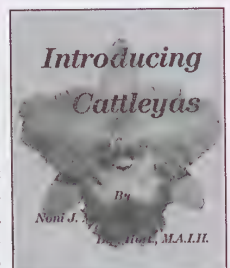
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INTRODUCING CATTLEYAS

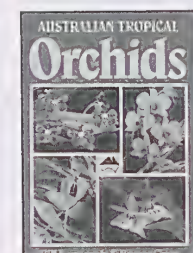
Noni J. Mammatt

Noni Mammatt's fascination with the Cattleya Alliance, their most beautiful blooms and extensive range of colour combinations, has prompted Noni to share the results of her own trials in successfully growing and flowering all types of this most beautiful genus under shadehouse conditions in the city of Perth in Western Australia. She hopes that as a result of her writing some new growers, as well as the experienced growers of other orchid genera, may be encouraged to introduce the Cattleya Alliance into their collections.

24 pages, B&W.



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AUSTRALIAN TROPICAL ORCHIDS

Bill Lavarack and Bruce Gray

Compiled by two well known names in the Australian orchid world, this book is essentially a collection of 116 colour photographs depicting 109 tropical orchids, chosen by the authors as representative. There is a short introduction together with brief text complementing each photograph.

The text includes notes on distribution including a simple map, habitat types, an indication of size, flowering season, conservation status and many features of interest.

72 pages, colour.

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ORCHIDS FOR BEGINNERS

A Guide to Selection and Cultivation
Allison and Mark Webb

"Orchids for Beginners" is for those just starting out in orchids. It provides information about choosing orchids best suited to your conditions and how to grow them. There is advice on what to look for when choosing plants to avoid some common traps and the expense of losing plants unsuited to your conditions. The essential basics of cultivation for beginners are covered - potting media, mounting plants, repotting and deflasking as well as choosing locations and building bushhouses. There are suggestions for growing in country areas as well as indoors. The plant descriptions offer suggestions of plants to choose from as well as introducing some of the very varied forms of orchids.

48 pages, colour and B&W.

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AFFIX
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NAME	PARENTAGE	REGISTERED BY
PHALAENOPSIS (continued)		
Tempted Empress	<i>Phal.</i> Empress x <i>Phal.</i> Temptation	Orch. Dominicana
Tempted Stripes	<i>Phal.</i> Chih Shang's Stripes x <i>Phal.</i> Temptation	Orch. Dominicana
Tetra Star	<i>Phal.</i> <i>stuartiana</i> x <i>Phal.</i> <i>teratopsis</i>	Hou-Tse Liu
Texas Passion	<i>Phal.</i> <i>brotheriana</i> x <i>Phal.</i> <i>tabasco</i>	Mr/Mrs J. Brandenburg (Dr J.G. Martin)
Walnut Valley Fantasia	<i>Phal.</i> Golden Sun x <i>Phal.</i> Ho's French Fantasia	B. Rinke(O/U)
Walnut Valley Fleckles	<i>Phal.</i> Brother Sally Taylor x <i>Phal.</i> Goldberry	M.C. Thompson
Walnut Valley Harlequin	<i>Phal.</i> Golden Peoker x <i>Phal.</i> Hakugin	B. Rinke(O/U)
Walnut Valley Treva	<i>Phal.</i> <i>gersenii</i> misapplied 3 x <i>Phal.</i> Deventeriana	M.C. Thompson(O/U)
Winter Cotton	<i>Phal.</i> Winter Frank x <i>Phal.</i> Land O' Cotton	Orch. Dominicana
Xeno's Tangelo	<i>Phal.</i> Donald Riggs x <i>Phal.</i> Golden Bells	M. Metzger
Yu Pin Kin Kan	<i>Phal.</i> Golden Peoker x <i>Phal.</i> Chingruey's Beauty	Neng-I Chang(H-K.Ming)
PHRAECIMIPEDIUM		
Acker's Sorcery	<i>Phrag.</i> Jason Fischer x <i>Phrag.</i> Sorcerer's Apprentice	Orch. by Ackers
Ashley Superstar	<i>Phrag.</i> Jason Fischer x <i>Phrag.</i> Eric Young	Orch. by Ackers
Ashley Wilkes	<i>Phrag.</i> Eric Young x <i>Phrag.</i> <i>warszewiczianum</i>	H.P. Norton
PLEIONE		
Vicky	<i>Pln.</i> <i>bulbocodioides</i> x <i>Pln.</i> x <i>barbarae</i> +	K. Redshaw
POTINARA		
Bill Millett	<i>Blc.</i> Adesso Tu x <i>Pot.</i> Karina Millett	Cairns Orchid Centre
Carol Holdren	<i>Blc.</i> Arabesque x <i>Sic.</i> Jillian Lee	B. Thoms
Hello Yellow	<i>Sic.</i> Memoria Matthew Wise x <i>Blc.</i> Love Sound	F. Clarke
Jarak Bean	<i>Blc.</i> Yen Sunrise x <i>Pot.</i> Thi-Ti	K. Sombonphon
Ken Green Power	<i>Blc.</i> Ports of Paradise x <i>Pot.</i> Golden Square	K. Sombonphon
Memoria Ralph Kiesewetter	<i>Sic.</i> Honolulu x <i>Pot.</i> Gordon Sil	A.W. Burrell(Kensington)
Miva Sangre Y Oro	<i>Blc.</i> Edward Hawkins x <i>Blc.</i> Pat Wood	Michel Vacherot
Newberry Delight	<i>Blc.</i> Edisto x <i>Sic.</i> Beauport	Carter & Holmes
Orchidom Bronze	<i>Blc.</i> Cherry Suisse x <i>Sic.</i> Tiny Titan	R.B. Cole
Orchidom Fort Lee	<i>Pot.</i> Fort Fortune x <i>Sic.</i> Jillian Lee	R.B. Cole
Orchidom Scattershot	<i>Pot.</i> Roku Gem x <i>Sic.</i> Penny Ante	R.B. Cole
Orchidom Spindle	<i>Blc.</i> Cute Aza Bug x <i>Pot.</i> Hoku Gem	R.B. Cole
Petlipet Angel	<i>Pot.</i> Angel Kiss x <i>Sic.</i> cocardea	K. Taguchi
Petlipet Psyche	<i>Pot.</i> Angel Kiss x <i>Sic.</i> Psyche	K. Taguchi
Roseella Supreme	<i>Pot.</i> Dal's Emperor x <i>Sic.</i> Memoria Ellen Littman	Roseella Orchids(A.S. Eiggins)
Star Carnival	<i>Blc.</i> Peeling Love x <i>Sic.</i> Fairyland	K. Taguchi
RENANTHERA		
Hooi Sew Yong	<i>Ren.</i> Kilaeua x <i>Ren.</i> Shim Tet Chon	Hooi Kum Who
RENANTHOPSIS		
Bob Banister	<i>Ren.</i> Brookie Chandler x <i>Phal.</i> Jennifer Matthews	Carter & Holmes
John Mason	<i>Anthps.</i> John Hutchinson x <i>Phal.</i> Nancy Mason	John Hutchinson
RHYNCHOVANDA		
Wilton Hill	<i>Rhyn.</i> Wong Yoke Sim x <i>V.</i> Teoh Chee Keat	R. Eckstrom(O/U)
RODRICIDIUM		
Blessings	<i>Onc.</i> Bless Ya x <i>Rdcn.</i> Elite	W. Savage(Richella)
Choice Show	<i>Rdcn.</i> Roban's Choice x <i>Onc.</i> Good Show	W. Savage(Richella)
Orchidom Daylight Glow	<i>Onc.</i> Sniffen x <i>Rdcn.</i> <i>venusta</i>	W. Savage
Orchidom Good Nature	<i>Rdcn.</i> Kone's Good Choice x <i>Onc.</i> Orchidom Natalie	W. Savage
Orchidom Happy Choice	<i>Rdcn.</i> Moon Cat x <i>Onc.</i> Charity	W. Savage
Orchidom Moonbeam	<i>Rdcn.</i> Moon Cat x <i>Onc.</i> Charity	W. Savage
Orchidom Pretty Beth	<i>Rdcn.</i> Orchidom Beth x <i>Onc.</i> Sniffen	W. Savage
SOPHROCATTLEYA		
Orchidom Ladylike	<i>C.</i> Iodgesii x <i>Sic.</i> Lana Coryell	R.B. Cole
SOPHROLAELLOCATTLEYA		
Jetsetter	<i>Sic.</i> Crystelle Smith x <i>L.</i> <i>finckiana</i>	F. Clarke
Orchidom Dark Flare	<i>Lc.</i> Marl's Song x <i>Sic.</i> Phyllis Kaplan	R.B. Cole
Orchidom Leopard	<i>Sic.</i> Leopard Jewel x <i>C.</i> Brabantiae	R.B. Cole
Orchidom Pebbles	<i>Sic.</i> Penny Ante x <i>Sic.</i> Beaufort	R.B. Cole
Orchidom Tiny Ante	<i>Sic.</i> Penny Ante x <i>Sic.</i> Tiny Titan	R.B. Cole
Orchidom Two Bit	<i>Sic.</i> Penny Ante x <i>Sic.</i> Poker Chip	R.B. Cole

NAME	PARENTAGE	REGISTERED BY
STENOGLOTTIS		
Elle Truter	<i>Sngl.</i> <i>woodii</i> x <i>Sngl.</i> <i>macdoughlinii</i> ♀	J. Truter
VANDA		
Asean Queen	<i>V.</i> Arnothai x <i>V.</i> Bangkok Blue	How Yee Peng(O/U)
Eduardo Marcellini	<i>V.</i> <i>sanderiana</i> x <i>V.</i> Annette Jones	R.F. Orchids
Erika Czek Dann	<i>V.</i> Gordon Dillon x <i>V.</i> Arjuna	Motes
Eugene Bradford	<i>V.</i> Miss Joaquin x <i>V.</i> Prolific	R.F. Orchids
Fuchs Midnight	<i>V.</i> Lalita Blue x <i>V.</i> <i>caerulea</i>	R.F. Orchids
Golden Chocker	<i>V.</i> Kultana Gold x <i>V.</i> Boonchoke	O. Diaz-Quirindongo(O/U)
Kathleen Ngo	<i>V.</i> Sarapee Blue x <i>V.</i> Doctor Asean	Woon Leq Nurs.
Mandal Roy	<i>V.</i> Josephine van Breto x <i>V.</i> Asean Queen	H. Yee Peng
Memoria Charles Rosenberg	<i>V.</i> Margaret Reisch x <i>V.</i> Thailand Gold	R.F. Orchids
Metallika Blue	<i>V.</i> <i>sanderiana</i> x <i>V.</i> Sumon Sophonsiri	P. Schillerref(O/U)
Motes Nut Brown	<i>V.</i> <i>berisani</i> x <i>V.</i> <i>cristata</i>	Motes
VASCOSTYLIS		
Stephanie Caravetta	<i>Vasco.</i> Pine Rivers x <i>V.</i> Memoria Lyle Swanson	R. Hatos
WILKARA *		
Didit Finally	<i>Ascp.</i> Irene Dobkin x <i>Neof.</i> <i>falcata</i>	C. Wilk
WILSONARA		
Dianne Feinstein	<i>Oda.</i> Remembrance x <i>Odcdm.</i> Crowborough	A. Halsted(Golden Gate)
YAMADARA		
Orchidom Green Glade	<i>Blc.</i> Victor Umri Pelier x <i>Bepi.</i> Jim Wallace	R.B. Cole
ZYGOPARSTIA		
Amazing	<i>Zba.</i> [Zcx.] Blue Berets x <i>Z.</i> Perrenoudii	R. Stevens(George Black)
ZYGOPETALUM		
New Era	<i>Z.</i> Millie x <i>Z.</i> B. G. White	L. Batchman
San Disquito	<i>Z.</i> Millie x <i>Z.</i> <i>mackayi</i>	L. Batchman

1 *Cataseium* Nimrod. The pollen parent plant named *Cism. incurvum* was the cloneotype of *Cism. trautmannii*

2 *Lyonara* (1959). This nothogeneric name is an illegitimate later homonym; *Schombollocattleya* has priority.

3 *Phal.* Walnut Valley Treva is listed with "Phal. gerseni misapplied" as the seed parent. This was submitted as *Phal. sumatrana* var. *gerseni*. Christenson, *The genus Phalaenopsis* (2001) page 124-125 explains that *Phal. gerseni* (Teijsm. & Binn.) Rolfe represents a natural hybrid between *Phal. violacea* and *Phal. sumatrana* that is known only from the type collection. As plants illustrated in *Awards Quarterly* and *Sweet, The Genus Phalaenopsis* 1980: 117 do not appear to represent this hybrid, evidently the name has been misapplied to other hybrids. Pending identification of the parent plant it has been registered as the grex *Gerseni* misapplied.

*New or new to registration, intergeneric hybrid genus with abbreviation (in square brackets after the genus name) for the following combinations. The botanical authority follows each component genus.

Amesangis [Am.] Garay & H.R. Sweet in Withner, *The Orchids, Scientific Studies*: 490 (1974) = *Aerangis* Rchb.f. x *Amesella* Schltr. ex Garay [Br-gp 9];
Angida [Agd.] Oakeley **nothogen. nov.** = *Angulosa* Ruiz & Pav. x *Ida* Ryan & Oakeley [Br-gp 6]
Anglyda [Agd.] Oakeley **nothogen. nov.** = *Angulosa* Ruiz & Pav. x *Lycaste* Lindl. x *Ida* Ryan & Oakeley [Br-gp 6]
Ceratostella [Ctd.] J.M.H. Shaw **nothogen. nov.** = *Amesella* Schltr. ex Garay x *Ceratostemma* Senghas [Br-gp 9];
Cyrtocidium [Cyd.] J.M.H. Shaw **nothogen. nov.** = *Cyrtocidium* Kunth x *Oncidium* Sw. [Br-gp 8];
Hermorchis [Hrm.] J.M.H. Shaw **nothogen. nov.** = *Hermidium* L. x *Orchis* L. [Br-gp 12], replaces *Acerashernidium* Grenl. with the incorporation of *Aceras* R.Br. in to *Orchis*. See *Gen. Orch.* 2: 333 (2001);
Holcosia [Hls.] J.M.H. Shaw **nothogen. nov.** = *Holcoglossum* Schltr. x *Luisia* Gaudich. [Br-gp 9];
Kalnara [Kn.] Dunkelberger & J.M.H. Shaw **nothogen. nov.** = *Cyrtocidium* Kunth x *Leorchilus* Knowles & Westc. x *Oncidium* Sw. [Br-gp 8], named for Janet and Lee Kuhn of I. & L. Orchids;
Orchinea [Ocm.] J.M.H. Shaw **nothogen. nov.** = *Orchis* L. x *Neolinea* Rchb.f. [Br-gp 12], replaces *Neolaceras* Kohlmueller with the incorporation of *Aceras* R.Br. in to *Orchis*. See *Gen. Orch.* 2: 333 (2001);
Tuberella [Tbr.] J.M.H. Shaw **nothogen. nov.** = *Amesella* Schltr. ex Garay x *Tuberolabium* J.J. Sm. (Br-gp 9);
Wilukara [Wlk.] C. Wilk & J.M.H. Shaw **nothogen. nov.** = *Ascentrum* Schltr. ex J.J. Sm. x *Phalaenopsis* Bl. x *Neofinetia* Hu [Br-gp 9];

†Natural genera new to registration: **Amesella** [Ame.] Schltr. ex Garay; **Cyrtocidium** [Cyr.] Kunth.

+Natural Hybrids used as grex parents for the first time: **Pleione** x **barbarae** Braem; [Although initially treated as a synonym of *Plin. grandiflora* in Cribb & Butterfield, *The Genus Pleione* 2nd ed. 97, 100 (1999) it has since been recognised as a natural hybrid, see *New Plantsman* 8(3): 144-145 (Sept. 2001); *Orch. Rev.* 111(1249): 25, fig. 25 (Jan.

2003); syn. *Pln.* "pink grandiflora" hort.; *Pln. harterdii* Braem; *Pln. molnii* Braem; *Pln. moelleri* Braem; *Pln. braemii* Mohr.]

♀ Species appearing for the first time as parents in registration: *Catasetum gladiatorum* Lacerda [Although this species is mentioned by Holst, *The world of Catasetum* 1999: 157, it is actually treated under its synonym, *Cism. barbatum* var. *spinosum* Rolfe on pages 121-123. Please note that the reference to first publication appearing on p. 157 should read *Bradsea* 8(16): 90-94 (1988)]. *Dendrobium chrysotermum* Schmidt & de Vogel [syn. *Chromolaetidium chrysotermum* (Schmidt & de Vogel) D.L.Jones & M.A.Clem.; *Leochilus crocodylicus* (Rchb.f.) Kraenzl. [syn. *Leochilus amphilium* Schltr., see *Flora Novo-Galiciana* 16: 181 (1985)]; *Mosdevallia venusta* Schltr.; *Phaius longicornu* Guillaum. [syn. *Phaius hainanensis* Tang & Chen. See Averyanov, Vasc. Pl. Snopsis Vietnam Fl. 1: 139 (1990)]; *Phalaenopsis chibae* Yukawa; *Stenoglossis macdougallii* (L.Bolus) G.McDonald (see note below);

CORRECTIONS

Registrar's Notes in *Orch. Rev. Suppl.*, May 2003 p.46, contains the heading "Cattleya citrina replaced by *Epimedium citrinum*", this last name should, of course, read *Epidendrum citrinum*.

Angulocaste Lemon Pie was registered with *Lycaste cochleata* "Willow Pond" as a parent by the late Ben Berliner in 1993. Subsequently Ben Berliner's plant of *Lycaste cochleata* "Willow Pond" has been re-determined by Henry Oakley and found to be *Lycaste bradeorum*. Please amend the entry in *SLOH 1991-1995 Addendum* p.7, 8 (1996) accordingly.

Dendrobium Aussie's Pixie and *Den. Tweetele*.

For these corrections, please see below under Registrar's Notes.

Doritaenopsis Bedford Baby Sunny was registered as *Dips.* Baby Sunny in error. Please correct the entry that appears in *Orch. Rev. Suppl.* 11(1251): 37 (May 2003).

Doritaenopsis Orchidom Lavender was registered with an incorrect parentage in *Orch. Rev. Suppl.* 11(1245): 38 (May 2002). Please correct this entry to read *Dips.* King Shang's Rose x *Phai. Canyon Lavender*.

Doritaenopsis Orchidom Whistling Swan was registered as a *Phalaenopsis* with *Phalaenopsis Whistling Swan* as the seed parent. This should have been *Doritaenopsis Whistling Swan*. Please amend the entry in *SLOH Addendum 1999-2001* p. 614.

Lycaste schoenbrunnensis Rolfe in *Orchid Review* 1: 51 (1893) has been treated as the grex (*Lyc. skinneri* x *Lyc. schilleriana*) in the register. It first flowered in the collection of the Emperor of Austria at the Imperial Garden at Schönbrunn near Vienna and a flower was sent to Rolfe by F. Sander & Co. of St. Albans. Based on the illustration appearing in *Wiener Illustrirte Gartenzeitung* t. 3 (1893), Henry Oakley has determined it to be a synonym of *Lyc. skinneri* with no evidence of it being a hybrid, as the long, thin sepals so characteristic of *Lyc. schilleriana* hybrids are lacking. It was awarded an AM/ RHS in 1894.

Paphiopedilum Kee Chin Lim registered in July 2001 as *Paph. polychildianum* x *Paph. stoned*, is now known to have been made with *Paph. platyphyllum*. Unfortunately, this makes the later registration of *Paph. Tali* pride a synonym of *Paph. Kee Chin Lim*. Please amend *SLOH 1999-2002 Addendum* p. 460, 304.

Rhynchovanda Alexander Choo Welwen was registered in 1993 as a *Rhynchostylis* in error. Please amend the entry in *SLOH 1991-1995 Addendum* p. 598.

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REGISTRAR'S NOTES

Angraecum philippinense Ames replaced by *Amesiella philippinensis* (Ames) Garay

Recognition of the genus *Amesiella* Garay for registration requires the following changes to registered grexes: *Angracium Snow* (syn. *Amesiella* (1972) transferred to *Amesalis* *Caratagracium* Koebeud (1995) transferred to *Caratalsia*. *Tubocum Snow* (1979) transferred to *Tuberella*. The new notogenera are published above.

Barkeria halbingeri - a synonym of *Bark. melanocalon*

Recent treatments of *Barkeria* no longer uphold *Bark. halbingeri* Thien as distinct from *Bark. melanocalon* A.Rich. & Galeotti. This has the result that the grex *Bark. Sarina* (1996) becomes a synonym of *Bark. Toodies* (1994). See Withner, *The Cattleyas and relatives* 5: 22-23 (1998); *Die Orchidee* 53(5): 590 (2002).

Coelogyne - synonyms and species

The following adjustments have been made to bring the registration nomenclature into line with Clayton, D. *The genus Coelogyne: a synopsis* (2002).

Coel. mayana Rchb.f. has been replaced by *Coel. pulvula* Teijsm. & Binn.

Coel. masangana Rchb.f. has been replaced by *Coel. tomentosa* Lindl.

Coel. speciosa var. *major* C.L.Sander, F.K.Sander & L.L.Sander and var. *Incarnata* hort. comb. ined. have both been replaced with *Coel. speciosa* subsp. *Incarnata* Gravendeel, which is sometimes known by the misapplied name *Coel. salmicolor* hort.

Cynoches - changes to accepted species.

In response to advice from George Carr, *Cyp. aureum* Lindl. is now accepted as distinct from *Cyp. egeantonium* Bateman. This results in a change of registered parentage to *Cyp. Hawaiian* Lei (1961). *Cyp. thurstonianum* Dodson is accepted as a synonym of *Cyp. peruana* Rolfe, resulting in a change of registered parentage of *Cyp. Beny Harder* (2000).

The name *Cynorkis* x *kewensis* and the grex *Cynorkis Kewensis*

The award of a Botanical Certificate by the RHS Orchid Committee to *Cynorkis lowiana* 'Madagascar' as reported in *Orchid Review* 11(1250): 79 (March 2003) raised interesting questions of typography and nomenclature concerning its sole registered hybrid, *Cynorkis Kewensis*. Although not appearing in *Index Kewensis* it was validly described by Rolfe in *Orchid Review* 11(127): 219 (1903). The only herbarium specimens at Kew date from 1918 and 1923, thus neither can be the holotype. However, the 1918 specimen is here designated as the neotype. In *Gardener's Chronicle* ser. 3: 43: 184-185 (1906) the name of this hybrid appears without detailed description as *Cynorkis* x *Kewensis*. It should be noted that on these two pages all the latin binomials appear in italics, as *Cynorkis* x *Kewensis*. It is all with a consistent typography in Roman indicating a grex name. Since the literature has been published as a binomial at species rank, a question may be asked as to what relationship exists between the two names?

A botanical binomial that is applied to a hybrid includes all the progeny or back-crosses (ICBN Art. 14.1). Thus parents, regardless of whether these are F1 crosses, are treated as a single name, rather than the two parents, the latin binomial for a hybrid that is a filial generation or a back-cross. Therefore plants belonging to the F1 generation of a single cross, be it a filial generation or a back-cross, are treated as a single grex name. Should individuals from this grex be back-crossed to either parent they become members of another grex but are still within the limits of the latin binomial and could be labelled *Cynorkis* x *Kewensis* (Another) grex.

The above has a bearing on the treatment of natural hybrids and grexes with apparently the same parentage - they are not co-extensive taxa, but rather the natural hybrid binomial should be regarded as encompassing the artificial grex.

The Registrar would like to thank Phillip Gibb of Kew for granting access to the herbarium and library at RBG Kew.

*There appears to be a general omission from *Index Kewensis*, and consequently IPNI, of many species described in the early issues of *The Orchid Review*.

Cypripedium

Plants in cultivation under the name *Cyp. manschuricum* 'Alba' have been used in breeding programs. However, the name *Cyp. manschuricum* Stapf is a synonym of *Cyp. x ventricosum* Sw. the natural hybrid between *Cyp. calceolus* and *Cyp. macranthos*. Gibb (*The genus Cypripedium* 1999: 272-273) reports that natural hybrids between these two species are common in far eastern Russia and that plants apparently representing back-crosses to either parent have been observed. These include cultivated plants with white flowers similar to *Cyp. manschuricum* var. *virescens* Stapf. In order to provide a valid name for cultivated plants the following combination is proposed, *Cyp. ventricosum* nothovar. *virescens* (Stapf) J.M.H.Shaw comb. nov. Basionym: *Cyp. manschuricum* Stapf var. *virescens* Stapf in Bot. Mag. 152: 19117 (1927) syn. *Cyp. manschuricum* 'Alba'.

Due to the interest in breeding *Cypripedium* and the variability of some species, there has been a reassessment of the taxa treated as synonyms. In order to allow greater precision and flexibility of naming several horticulturally important taxa below the rank of species will be accepted as grex parents in *Cyp. macranthos*. Several of these appear in the grex list above.

Dockrillia convoluta transferred to *Dendrobium*

The Papuan *Dockrillia convoluta* needs to be transferred to *Dendrobium* to provide a valid name for this taxon in registration. A replacement name has been provided by André Schuiteman and Ed deVogel on their CD-ROM "Orchids of New Guinea vol. 2: *Dendrobium* and *Allied Genera*", but this does not constitute valid publication at present. Therefore, for the sake of consistency, this proposed name is taken up and published here: *Dendrobium contextum* Schuiteman & de Vogel ex J.M.H.Shaw comb. & nom. nov., replaced name: *Dockrillia convoluta* M.A.Clem. & D.L.Jones in *Laestadia* 1(1): 11 (1996).

Unfortunately, confusion arose during the initial registration of a grex with *Dockrillia convoluta* as a parent, and it was included in the register by error as *Den. convolutum* Rolfe, a species of section *Lataura*. The Registrar would like

to thank Michael Harrison of the ANOS for pointing out this mistake.
Please amend the parentage entry in *Orch. Rev. Suppl.* 111(1:250):20 (March 2003), for *Den. Aussie's Pixie* to read *Den. aberrans* x *Den. contextum*. Please also note that as a consequence, *Den. Aussie's Pixie* and its progeny *Den. Sexy Lady* are not to be placed in *Dochilobium*.
Also the parentage for *Den. [Doc.] Twittee* should be changed to read *Den. [Doc.] luliginosum [fuliginosa]* x *Den. [Doc.] contextum [convoluta]*.

Epidendrum - adjustments to accepted species.

The following changes have been made to correct nomenclature used in registration.
Epi. paxii A.D. is treated as a synonym of *Epi. bracteatum* Barb. Rod., resulting in changes to the registered parentage of the following grexes: *Epi. Rocio* (1980); *Epi. Surprise* (1974); *Epi. Bud Spence* (1984).
Epi. charocarpum Rchb.f. is replaced by *Epi. pterophyllum* Rchb.f., resulting in changes to the registered parentage of *Epi. Lancing* (1998); *Epi. Midlight* (1962); *Epi. Pioneer* (1964); *Epi. Topsy Turvy* (1966).
Epi. zebra Rchb.f. is replaced by *Epi. nematocalum* (A.Rich.) Acuna, resulting in changes to the parentage of *Epi. Puss-Puss* (1970); *Epi. Sarah Jessup* (1961) and *Epi. Tom Ward* (1981).
The name *Epi. randii* Barb. Rod. is replaced by *Epi. radiatum* Barb. Rod., resulting in changes to *Epi. High Time* (1985); *Epi. Rickmans* (1994); *Epi. Sundance* (1978); *Epi. Stephanie* Gustavo Cortez (1995).
Epicaltleya Zebra Rose (1992) becomes a synonym of *Epicaltleya Barry Bell* (1989).

Holcoglossum [Holc.] Schltr.

The nomenclature used for registration has been updated to coincide with that proposed by Christenson in *Notes RRG Edinburgh* 44(2): 249-256 (1987) and *AOS Bulletin* 1346-1349 (Dec. 1995). This has resulted in the transfer of *Vanda kirballiana* Rchb.f. to *Holcoglossum kirballianum* (Rchb.f.) Garay. The name *Neolineta quasipinifolia* (Schltr.) hort. ined. has been replaced by *Holcoglossum quasipinifolium* Schltr. As a result the following grexes have been placed under new nomenclature:
Holcanthra [Hol.] = Holcoglossum x Renanthera
Renanthera Pinwheel Parfait (1991).

Holcosia [Hls.] = Holcoglossum x Luisa
Lunelia Ace (1987); *Luisanda Little Beauty* (2003).

Vandaglossum [Vg.] = Holcoglossum x Vanda
Vanda Ann Kirsch (1947); *Any Frederique Restrepo* (1944); *Ballet Girl* (1946); *Little Beauty* (2003); *Star Elite* (1988); *Trikimball* (1948); *Vandolinella Ruffles* (1978).

Phragmipedium ecuadorensis is a synonym of Phrag. pearcei.

Following the treatment of *Phragmipedium* in Jørgensen, P.M. & León-Yáñez S. (1999) *Catalogue of the Vascular Plants of Ecuador* p.436, and the recent article in *Orchids* (AOS) 210-213 (March 2003) by Christenson, the database has been amended to reduce *Phrag. ecuadorensis* Garay to synonymy under *Phrag. pearcei* (Rchb.f.) Rauh & Senghas. Unfortunately this results in several grex synonyms:
Phrag. Bethva, 1985 (syn. *Phrag. Toyoki* Kawatsura, 1997)
Phrag. Cape Bonanza, 1999 (syn. *Phrag. Katadin Sunset*, 2000)
Phrag. Cape Gold Nugget, 1999 (syn. *Phrag. Bird's Delight*, 2001)
Phrag. Ecua-Bess, 1991 (syn. *Phrag. Olaf Gruss*, 1996)
Phrag. Fire Star, 1988 (syn. *Phrag. Simon Marcotte*, 1993)
Phrag. Fireworks, 1987 (syn. *Phrag. Shizuko* Kawatsura, 1999)
Phrag. La Moya, 31 Jan. 1995 (syn. *Phrag. Patti MacHale*, 7 Nov. 1995)
As Christenson points out, some of the grex parents registered under the name *Phrag. ecuadorensis* may in fact represent *Phrag. richteri* or another similar natural hybrid. Anyone who can confirm a re-identification for the parent of a registered grex listed above is asked to contact the Registrar so that the Register may be corrected. This may well result in the re-instatement of some of the above synonymy.

Pleione - natural hybrids and grexes

As discussed above under *Cynorchis*, a reconsideration of the relationship between natural hybrids and grexes with apparently the same parentage, has led to the conclusion that they are not co-extensive taxa, but rather the natural hybrid binomial should be regarded as encompassing the artificial grex. For example, the newly registered grex *Pln. Vicky* is bred from *Pln. bulbocodioides* x *Pln. x barbarae*. Since *Pln. x barbarae* is thought to be the natural hybrid between *Pln. bulbocodioides* and *Pln. grandiflora* the resulting grex is no longer of species equivalent rank (as it involves at least one back-cross), but forms a cultivar-group with in the limits of the name *Pln. x barbarae*. Therefore the note appearing in *Orch. Rev. Suppl.* 110(1:247): 86 (Sept. 2002) should be disregarded. Instead the grexes listed constitute cultivar-groups within the hybrid circumscribed by the binomial.

Stenoglottis macdoughlinii and Snigl. molweniensis C.McDonald ined.

A recent revision of the genus by Joyce Stewart concluded that four species were recognisable in southern Africa. Her revision in *Kew Magazine* 6(1): 9-22 (Feb. 1989) also includes a key, excellent illustrations and hints at the existence of a natural hybrid, *Snigl. woodii* x *Snigl. longifolia*. Linder & Kurzweil in their book *Orchids of South Africa* (1999) p. 146-149 also describe the four species of *Stenoglottis* usually recognised from South Africa, and comment that, "There is substantial variation in some species, leading to suggestions that further subdivisions may be possible." *Cynorchis macdoughlinii* L. Bolus is listed as a synonym of *Snigl. woodii* Schltr by Linder & Kurzweil. It was first reduced to synonymy by Joyce Stewart who commented that the flowers were a much darker, rosy crimson with longer spurs than *Snigl. woodii*. This taxon has since been transferred to *Snigl.* and raised to specific rank in *South-African Orchid Journal* 26(4): 115-119 (1996) as *Snigl. macdoughlinii* (L.Bolus) C.McDonald; it has now been accepted for registration. Further

details of this species appear in I. & E. la Croix, (1997) *African Orchids in the wild and in cultivation*, p. 329.
Additional work with karyotypic and phylogenetic data on the entire genus has also lead to the recognition of a further species provisionally called *Stenoglottis molweniensis* C.McDonald ined. This species, known from KwaZulu-Natal, has also been accepted for registration under its manuscript name (although this registration has yet to be received). It is informally described in *South-African Orchid Journal* 26(4): 115-119 (1996).

Tuberolabium kotoense distinguished from Tblm. quisumbingii

As pointed out by Christenson in *Orchids* (AOS) 68(12): 1220 (Dec. 1999), *Tuberolabium kotoense* Yamam. is endemic to Taiwan and is distinct from the Philippine species *Tblm. quisumbingii* (L.O.Williams) Christenson, with which it has been confused. As a result it becomes necessary to change the registered parentage of the grex *Tuberella* [formerly *Tubaetum*] Snow Gem (1979).

Julian M. H. Shaw, RHS International Orchid Registrar.

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Orchid Stakes, Ties and Clips

By Brian Milligan

By far the most popular orchid stakes are made of cane or bamboo, usually stained green, but there are several other commercial or home-made varieties. Cheapest by far are those made from dried bracken fern fronds, if you discount the cost of the petrol needed to travel to find them. It's OK to collect them on private land (with the owner's permission) but it may be illegal to cut bracken on public land.

Then there are those stakes made from high-voltage electrical cable. I've never done so myself, but I'm told that one simply unravels the aluminium strands that make up the cable, and fastens an end of one in a vice and the other end in the jaws of a power drill. Simultaneously stretching and twisting the strand both straightens and stiffens it. Bend a loop in the top of each stake so as to minimise the chances of facial injury by the sharp end when tying your cymbidium spikes. Aluminium stakes have an advantage over other types in that they can easily be bent to follow the curve of arching spikes.

Stakes made from bamboo cane are the most common. Packs usually carry a range of stakes of equal length but differing diameters, enabling one to select one that best matches the diameter of the spike to be staked. They come in a range of lengths, usually 60 cm, 90 cm and 1.2 m. The middle size is best suited to most cymbidiums; they look best if the thicker end is inserted in the pot. A minor disadvantage of bamboo canes is that they are hollow. This prevents them being sharpened to a point for easier insertion in the potting mix. Some growers compromise by cutting the end diagonally with secateurs.

To minimise root damage, one should never insert a stake near the pot's rim. One would imagine that the further from the base of the orchid the better, but experience shows that there are more orchid roots around the periphery of the pot than near its centre.

My personal preference is for wooden stakes of uniform diameter. They are not hollow and have sharpened points. Like bamboo canes, they are usually treated with a plant-friendly green stain to make them less conspicuous. Although the majority of bamboo stakes sold for orchids are eminently suitable for cymbidiums, most are far too heavy for stak-

ing less robust flower spikes, such as those of odontoglossums, oncidiums, disas or paphiopedilums. Occasionally lighter cane stakes appear in nursery shops, so keep an eye out for them and buy a supply then, as they're not always available. Stakes for masdevallia and other small orchids are easier to find, although they're never stained green – simply buy a packet of wooden skewers (kebab sticks) from your local supermarket! If you're fussy, use a can of green or dark grey spray paint to produce a less conspicuous finish.

Re-using stakes. It is unwise to re-use stakes, because of the possibility of transferring virus from one plant to another via the roots. Some growers turn their stakes upside down the second year, while others attempt to sterilise their stakes by immersion in a very strong solution (10%) of Purex® algicide overnight. Both of these procedures involve a certain risk and I prefer to use new stakes for my more highly valued cymbidiums. Aluminium stakes are probably the only ones that can be sterilised with certainty (by heating the end that was inserted in the pot in a gas flame).

Fastening spikes to stakes may be done in several ways. Most growers use green plastic-coated wire, usually referred to as Twistie-Tie®, although there are probably several other proprietary brands. It may be purchased in packets of straight lengths about 150 mm long or in continuous rolls. The largest roll contains at least a hundred metres, costs about \$16 and lasts me for several years.

There are two main methods for secur-

ing spikes to stakes with Twistie-Tie. The most straightforward entails wrapping the tie around both spike and stake and securing the ends by twisting them together several times. In the other method the Twistie-Tie is first twisted around the spike and then around the stake to form a figure-of-eight. In both cases, the Twistie-Tie ends should be twisted together behind the stake, not behind the spike, to minimise the possibility of damage to the flower stem. In the case of smaller orchids, such as masdevallias etc, there is no need to twist the two ends of the Twistie-Tie together – simply twist two turns of Twistie-Tie around the stem and stake and cut off any excess.

An even simpler method for fastening spikes to stakes is to use orchid clips, which are spring-loaded plastic clips resembling dolls' hair clips. The smaller size has three claws on one side and two on the other. It is more suited to masdevallias and other small- to medium-sized inflorescences than to cymbidiums but a larger size clip more suitable for cymbidiums is also available. The clips are available from Collector's Corner, the smaller size costing about \$3 for a packet of 25. They will probably last you a lifetime unless your granddaughters 'borrow' them for use with their dolls. They come in an inconspicuous green colour and are much less 'fiddly' than Twistie-Ties to apply. ■

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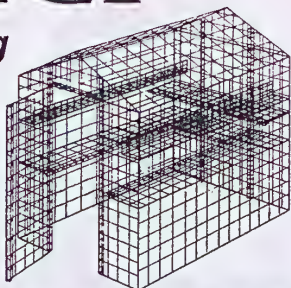
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AOR 038

Australian
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Review

**WELCOMES
EDITORIAL
CONTRIBUTIONS**

*Please ensure that all
slides and photographs
are clearly marked with
the author's name and
address*

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AOR 005

Hills District Orchids

(Props. Graeme, Lyn and David Banks)

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AOR 123

Australian Natives

Spring, the busy time of year when just about everything is in bloom. This is also the time to get your plants ready for the growing season that gets underway as soon as the flow-ers fade.

Now is the time for the big shows of the year where growers can see what is around in the way of the latest new hybrids and buy some new seedlings and flasks.

Cull seedlings that don't make the grade as soon as they bloom. Assess each plant on its condition. Remember that we had a very hot and dry summer and some plants might not be as strong as they should be and therefore couldn't be expected to bloom at their best. But then, you might not want to give bench space to plants that can't thrive in hard conditions.

General plant care is important so your natives get off to a quick start and aren't disturbed once new growth starts. Repot as soon as the flowers are gone, unless the plant is carrying seedpods, then leave it until they have been harvested. Take care handling new plants if new growths have already started as they are very brittle. Clean away any dead growths and roots and any media that has broken down. Wash it out with the hose if necessary. Choose new pots that leave enough room for a couple of season's growth. Any more and they may be pot-bound enough to flower next year. Be sure to keep your hands and any cutting tools clean to avoid spreading diseases such as viruses. Soak in bleach solution. Work on the clean and healthy plants first and leave any you suspect of until last.

Any virused plants should be destroyed. They need to be burned or put in the garbage for high temperature destruction or composting. Don't sell them and don't put any media into the garden or use other plants even ferns. Get rid of the pot too. It can be difficult to tell by looking at a plant if it has a virus or not, but there are labs which can test plants for you. Some insect damage, such as red spider, can give similar symptoms, but this will not be in the new growths once the plants are pest free, virus symptoms will continue to appear.

Check your growing area for changes in conditions. Trees might have grown so now the orchids will be getting less light than before. My big eucalypt seems to have died (the branches are still green and I'm hoping they will re-shoot, but it is unlikely as the tree has been sick for sometime). This means I no longer have shade over my orchids and will have to add another layer of shade cloth to keep my shady area. The lack of leaves on the tree is going to affect the whole microclimate of my growing area. It also means I won't have visits from the koala which seems to set up camp above my work table on days when I've planned to get stuck into some repotting!

Check misting systems now and remove blockages. I've found cheap plastic misters can get damaged or worn and no longer spray as well as they should. To check the coverage from misters I turn mine on for a couple of minutes then turn them off (unless it is a really hot day and I can get the boys to help!) and go in and look to see if any plants are missing out.

Look for plants that have grown and now block water from getting to others under or near them. Water shadows like this can result in plants being really dehydrated before they drop enough leaves to be noticed.

Get the shade ready for heated houses if you need it and be sure to start opening the vents during the day. Increase the water but keep the heaters ready for cold nights.

Wetting plants that have dried out over winter can be difficult. There are wetting agents readily available, but test to be sure they won't harm plants. Begin fertilising as the weather warms up.

Dry bark media is a great home for ants, slugs and some other pests. To remove them is it usually necessary to soak the plant in a bucket of water. Add some wetting agent and fertiliser as well. Ants will nest in the base of *Dendrobium* leaves. They can be seen in piles of dirt, often with scale for company. I've used a mixture of soapy water (pure soap, not detergent) and cooking oil to deter them. Just a small amount of each, shake well and spray it on.

Enjoy the blooms while they last. Take plants inside and set up your own display. Or take them to shows and compete with other growers. Before removing plants from their growing area water them really well, and be sure they get more water if they are out for more than a day or so. Be wary of air-conditioned shopping centres, and see if someone is going to water plants. Small seedlings and mounted plants are most at risk of damage. Don't set up your own indoor display in a sunny window unless you keep the blinds drawn or you will get scorched plants. Orchids don't release pollen so they are not a hazard for allergy sufferers, but some can be overwhelmingly scented, eg. *Dendrobium falcorostrum* and its hybrids.

Cattleyas

During winter there is very little one can do for cattleyas. Try to keep plants away from the outside elements. Shelter away from the outside elements is a big plus for the plants. A glass house or tunnel is a big advantage during winter.

DO NOT OVERWATER. A good drench every seven to ten days will be all the plants need. Maybe, a monthly drench with GARDEN PARTY®. So far this year I have had a lot of specimens sent to me and they have all had *Phytophthora* spp. This may have been caused by over watering – bad potting media – or poor ventilation. If you find the pseudo bulbs going black or leaves with black type areas and spreading – the plant could have *Phytophthora cactorum*.

We are lucky today, because SCOTTS AUSTRALIA have recently released the fungicide BANROT®. This is a drench fungicide that has preventive and curative properties. It is expensive, but so are the plants if you lose them. Follow rates and applications rates on label.

Cymbidiums

In the last issue of the AOR I mentioned that it was time to start to get your base potting

mix together. After this base mix has matured you can add your favourite ingredients to it. Some growers add medium or coarse bark, maybe some zeolites, rice hulls or styrene. Some like to add a little coarse sand or maybe a little perlite. These additives can be added when you are ready to repot. The main thing to remember is that the compost must drain reasonably quickly. Pour a litre of water into a 200mm pot (without a plant) and see how much water drains out. After 15 minutes you should have collected around 750mm of water. This should work quite well for a bark base mix. If the mix holds too much water too long, you could find there is no air space within the compost. Remember, no air space after drainage – no roots. Point two – If a squat pot holds ten litres and tall slim line pot holds ten litres, they both have the same moisture holding capacity in the bottom of the pot. What does change with shape of pot is the water holding capacity.

It is interesting to note that many growers use a fine type mixture (not open) and have excellent results. Most of these growers usually grow under cover, so as they can monitor their watering exactly. In other words – no overwatering!! One thing to remember, if you live in a high rainfall area make sure your compost has good draining capabilities!

Most growers should still have plants in bloom. Keep racemes well staked as there is still the spring show to come. Watch snails. Aphids can start to be a problem – spray with CONFIDOR®. Keep an eye out for the dendrobium beetle if you live in an area where it is prevalent. CARBARYL sprays should keep it under control. While plants are still in spike you can fertilise weekly with a high P-K fertiliser such as CAMPBELLS YELLOW – MERRI-FERT or HSO 12.

Once the weather starts to warm up – late August – September, you can start repotting. More news on repotting next time.

In Volume 14 Number 4 of *The Orchadian*, Phil Spence reports of a pollen mite that he found in a *Dendrobium* flower. This mite has been found on cymbidiums in Italy and New Zealand. I advise all cymbidium growers to familiarise themselves with the pictures on page 152. If you find any of these mites on your blooms, let your local agriculture office know.

Paphiopedilums

Routine culture during late winter is much the same as for the previous few months. Plants should be watered only when moderately dry and given some weak Aquasol immediately after every third or fourth watering. Watch the weather – the westerly winds which characterise this time of the year can dry plants out quite quickly. Watering is best done during early morning.

Paphiopedilums benefit greatly from annual repotting. The slight shock of repotting encourages the growth of a new crop of roots which may otherwise not appear. The best time for repotting is from mid-September until late November.

The potting mix should be prepared a few weeks before use; this allows the bark to begin

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CULTURAL NOTES

breaking down – a condition which your Paphs.
will appreciate.

Whilst paphs. can be grown successfully in
a variety of materials, I have had best results
using mixtures based on bark. A very good
mixture consists of the following:

Pine Bark (approx. 5-10mm).....80%
Charcoal (approx. 5-10mm).....20%

Add to this:

Sel Grit (granular limestone)
or bird grade shell grit.....2%
Hoof & Horn Meal (or, at a pinch,
Blood & Bone.....1%

Wet the bark and charcoal with normal
strength Aquasol, add the other ingredients and
mix thoroughly. The mixture should be kept
damp (use water from here on) until ready for
use and must be used fairly wet. If you cannot
store the mixture in an area free from earth-
worms and other vermin, it may be better stored
in open plastic bags. If available, about 10%
coarse river gravel can be added; the weight of
this helps prevent the pots from tipping over.

If you have only a few plants, or all this
sounds like too much trouble, your local Orchid
nursery may be able to supply a similar mix-
ture. When buying potting mixtures always
make sure they do contain plenty of nitroge-
nous fertiliser (have a good sniff) as bark alone
contains very little that the plants can feed on.

Squat plastic pots are the most suitable for
paphiopedilums, particularly those with domed
bottoms and plenty of drainage holes – not only
for drainage but for aeration. A pot should be
chosen which will comfortably hold the roots.
The plant should be potted firmly with its base
about 12mm below the surface. If the plant is
wobbly, stake it. Do not use Osmocote or the
like on Paphiopedilums.

When dividing Paphiopedilums I always try
to leave two flowered growths plus whatever
newer growths are ahead of these. The older
flowered growth can be "back cut" and left in
the pot during January.

Newly repotted plants are simply placed on
the bench and watered and fertilised as before.
The plants do not need to be widely spaced.
Incidentally, open benching (say 3 x 1
Weldmesh) is far preferable and gives much
better results than the solid benching once
favoured.

Phalaenopsis

Watering:– Water *only* in mornings every 3
days. Mist foliage on hot windy days. Increase
watering if weather starts to heat up. Do not
leave water in crown of plants. Water floor to
keep up humidity if necessary.

Light:– Leave shade at 70% until weather
starts to warm up, then increase to 90%.

Fertiliser:– Fertilise fortnightly using
Campbells A, Aqua-K or Phostrogen.

Pest Control:– Continue to fungicide every 6
weeks. Use Diazanone, Malathion or Pyrethrum
to control scale and insect pests.

Keep a close watch for mites and treat with
a miticide as necessary.

General:– Plants should be in full bloom dur-
ing these months. Remember to stake the
spikes for best displays. Do not spray flowers
with water or fungicides and keep under cover
as much as possible to avoid spotting.

Vandaceous

Watering:– Water well in the mornings every
2 or 3 days. Avoid watering on cold or bleak
days. Root systems should be kept moist and
may require misting on dry, windy days particu-
larly if hanging on wires only or potted in bare
baskets or pots.

Light:– Strap leaf vandas and ascendas need
50% shade. Outside vandas need very little
cover at this time of year.

Fertiliser:– Fertilise once per fortnight during
August using a low nitrogen fertiliser.

Increase to weekly during September,
changing to a high nitrogen fertiliser and alter-
nating over a 4 weekly period:–

Wk. 1. Inorganic high nitrogen – Campbells
B, Aqua-feed or Aquasol.

Wk. 2. Foliar/Trace elements – Wuxall.

Wk. 3. Inorganic high nitrogen – as for week
1.

Wk. 4. Organic – Fish emulsion or Nitrosol.

Pest Control:– Continue to fungicide every 6
weeks. (e.g. Daconil, Mancozeb, Wettable
Sulphur or Ridomil MZ WP).

Spray with Diazanone, Malathion or
Pyrethrum if signs of insect damage or scale.

Watch for mites and treat as necessary.
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Cymbidiums

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Editor's Report

It's really not that long ago that the Australian *Cymbidium* scene could have been described as being in the doldrums. Very little was written or said about cymbidiums in orchid magazines, or within many clubs and awards or show wins were few and far between for *Cymbidium* growers. Their moment in the sun seemed to have passed, with many orchid club members seemingly regarding cymbidiums as little more than space fillers at shows to plug the gaps behind hothouse genera and the latest 'must have' genus in vogue at the time.

Fortunately, even in those down times, there were innovative hybridists and pro-active growers still enthusiastic about cymbidiums (which, by the way, were still the most popular orchid genera in the country). Many of those hybridisers and growers were responsible for the formation of *Cymbidium*-specific clubs and the Australian Cymbidium Society, and have played a large part in the revitalisation of *Cymbidium* growing in Australia. *Cymbidium* clubs lead the way among orchid clubs in terms of vitality and are among the few orchid clubs that are reversing the trend of dwindling numbers by actually growing in memberships.

More than ever before cymbidiums offer a breathtaking variety of types, colours and sizes with species and hybrids capable of being grown in just about any climatic region in Australia. Versatile enough to survive and flower for those who just keep a few plants in the back yard under a tree, cymbidiums also have the variety and flexibility to satisfy those who wish to take their culture and presentation to the highest levels.

Most orchid growers, even many of those who regard cymbidiums as beginner's orchids, grow a few along with their more favoured genera, although most of those who regard them as

easy don't grow them particularly well. Certainly they are hardy and adaptable and that is part of their appeal, but growing them to their full potential is as great a challenge as growing any other genera to the same level.

Perhaps achieving excellence with cymbidiums is even harder than with other orchids, particularly when it comes to orchid shows. Major *Cymbidium* shows such as the National Cymbidium Show see over one thousand individual exhibits and, even at most multi-genera shows, cymbidiums outnumber any other general making the competition much harder than for the less numerous, rarer, or more exotic genera. That's not to imply that cymbidiums are in some way better than other orchids as such judgements can only ever be personal and selective. We, like many other *Cymbidium* enthusiasts, grow other genera which give us as much pleasure as our cymbidiums do, but cymbidiums do have much to recommend them and are deserving of their place as the most popular of orchid genera across all levels of expertise and interest.

Features in this issue: The second part of Helen Stretch's update on Australian Cymbidium Society awards; the next installment of Dean Roesler's ongoing review of *Cym. suave* hybrids; Kevin Butler of Ezi-Gro Orchids gives us a fascinating insight into orchid shows and hybridising trends in Japan; Dr John Snedden describes his experiences teaching *Cymbidium* culture at TAFE; Rob Smith tells us how to save, store and use *Cymbidium* pollen; and, joint National Cymbidium Show naming rights sponsors, Van Schaik's BIO-GRO, are featured along with some comments on the role of sponsorship in the staging of such events.

Best of luck this season.

Rob Smith
Editor

Editorial Panel



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HOW TO JOIN A CYMBIDIUM CLUB IN YOUR STATE

CYMBIDIUM CLUB OF AUSTRALIA INC.

Meetings are held on the 2nd Thursday of each month (except December, January and February)

Meetings commence 8.00 p.m.

Venue: Lakemba Chapter Remembrance Hall,
220 Lakemba Street, Lakemba,
Sydney, N.S.W.

For further details contact
Secretary, Peter Moore,
10 Stephanie Street,
Padstow, N.S.W. 2211
Phone: (02) 9721 0572
President, Geoff LeMame,
Phone: (02) 9449 9648

CYMBIDIUM CLUB OF SOUTH AUSTRALIA INC.

Meetings are held on the 4th Wednesday of each month (except December and January)

Auditorium open from 7.00 p.m. —

Beginners' Group commences 7.20 p.m.

Main Meeting commences 8.00 p.m.

Venue: Burnside Community Centre,
401 Greenhill Road, Tasmore, Adelaide, S.A.

For further details contact
Secretary, Graham Shevlin,
22 Australian Avenue,
Clovelly Park S.A. 5042
Phone: (08) 8276 7652
President, Ray Brady,
Phone: (08) 8254 7136

THE CYMBIDIUM ORCHID CLUB OF WESTERN AUSTRALIA INC.

Meetings are held on the 3rd Monday of each month (except January and February)

Benching of plants commences 7.15 p.m.

Popular Vote commences 7.50 p.m.

Main Meeting commences 8.00 p.m.

Venue: Belmont Sports & Recreation Club,
Abernethy Rd, Belmont, W.A.

For further details contact
Secretary, Marilyn Thomas,
17 Broula Road, Kalamunda, WA 6076
Phone: (08) 9293 0524
President, Nado Lenkic
Phone: (08) 9293 3196

THE CYMBIDIUM ORCHID SOCIETY OF VICTORIA INC.

Meetings are held on 2nd Tuesday of each month (except January)

Popular Vote commences 7.50 p.m. —

Main Meeting commences 8.00 p.m.

Venue: Mt. Waverley Youth Centre,
Millers Crescent, Mt. Waverley, Victoria.

For further details contact

Secretary, Kevin Brown,
4 Riviera Street, Mt Waverley, Victoria 3149
Phone: (03) 9808 1224
President, Ken West,
Phone: (03) 9725 7513

Australian Cymbidium Society Awards

Part 2

With the inclusion of the following Australian Cymbidium Society awards our President and Registrar, Helen Stretch, has brought us up to date with all ACS awards granted since the inception of our national judging and award system. (There are one or two awards still being processed, or awaiting proof of hybrid registration, and they will be published in due course).

The awards featured in this and the previous issue, along with those published in AOR (Vol 66 No. 6) in December 2001/January 2002 complete the 40 awards granted by the ACS up to this point. Among those 40 awards are six Awards of Merit, 9 Certificated of Excellence covering recognition of distinctive features, quality of culture etcetera, and 2 Awards of Quality, with the remainder of the awards granted being Highly Commended Certificates.

The Australian Cymbidium Society awards have been spread across a range of recipients from some of our most famous and well-respected commercial nurseries to a high percentage of individual hobby growers. Hybrid grexes which featured in awards more than once included *Cym. Kirby Lesh*, *Cym. Khan Flame*, *Cym. Ruby Valley*, *Cym. Little Sarah* and *Cym. Sleeping Sharon*. Hybridists who's breeding lines received repeated recognition were led by Bryants Orchids and Geyserland Orchids, followed by Mills Orchids, Valley Orchids, Paradisia Orchids and Dean Roesler. Kimberley Orchids have achieved outstanding success as growers with a total of 6 quality awards going their way. Kevin Butler of Ezi-Gro Orchids received 4 awards with Phil Grech, Paradisia Orchids, Stephen Thomas and Murray Weston all being granted 3 awards for plants they cultured.

I'm sure you'll agree that the quality of culture, hybridising and presentation exhibited throughout these awards speaks volumes for the depth and high standards currently so obvious among *Cymbidium* hybridists, growers and clubs within Australia.

Our thanks too for the excellent job our Registrar, Helen Stretch, does in recording, processing, framing and distributing the ACS awards.



Cym. Little Sarah (a group of clones '74', '384', '202', '231' and '153').

Award of Quality (AQ). Bred and registered by Paradisia Orchids, this crossing of *Cym. (Sweetheart x Sarah Jean)* has produced remarkably consistent results. Compact to moderately sized plant growth, arching to pendulous inflorescences, and bright pink-blushed or splashed blooms are typical of the grex with a good percentage exhibiting outstanding flower form for their breeding.



Cym. Maria Jones.

Highly Commended Certificate (HCC) 79.0 points. *Cym. (Globetrotter x Stanley Fouraker)*. Grower Kevin Butler (Ezi-Gro Orchids) and hybridiser A Easton. A quality pure white intermediate with heavily banded labellum in deep pink-red and a central yellow band adding up to an eye-catching flower, reasonably full in shape if a little rectangular in outline. Twelve well-spaced blooms were displayed on one very tall inflorescence on the seedling plant as judged.



Cym. Brenda.

Highly Commended Certificate (HCC) 78 points. *Cym. (Jessica Dubroff x George Boltan)*. Grower Kevin Butler (Ezi-Gro Orchids) and hybridiser A Easton. One dozen large, flat flowers displayed on a tall spike, all blooms well above the foliage. Colour is white blushed pink on the sepals. Labellum white with soft pink edging and dark red spots.



Cym. Festival 'Looking Great'.

Highly Commended Certificate (HCC) 77 points. *Cym.* (Winter Wonder x Harry Sakel). Full-shaped intermediate-sized flowers, white in colour with a touch of pink mid-line on the floral segments. Labellum white, barred and spotted red with a yellow centre.



Cym. Wyong Rouge 'Hayley'.

Highly Commended Certificate (HCC) 76 points. *Cym.* (Terama x Sylvan Star). Grower, Ray Maisey. Hybridiser, Mikayla. Round and full-shaped even pink blooms with a white labellum edged in pink and spotted red with a yellow central stripe.



Cym. Bakers Snow 'Turkish Delight'.

Highly Commended Certificate (HCC) 76 points. *Cym.* (Doctor Baker x Snow Peterson). Grower, Ted Brinkworth. Attractive dark red/brown flowers with a well-displayed labellum heavily blotched in dark red. Pendulous inflorescences with flower counts in the high teens were well displayed around a small plant.



Cym. Owzat 'Sir Donald'.

Award of Merit (AM) 80 points. *Cym.* (Willunga Regal x Ruby Eyes). Grower, Ted Brinkworth. Hybridiser, Deane Mills. Inflorescences long and naturally arching and floriferous with well-presented 60mm blooms. Striking red/burnt orange colouring showing as an intense stripe in the centre of both petals and sepals with lighter dark pink edges. Labellum is white and heavily barred black/red, cheeks red, yellow centrally.



Cym. Poetic Ghost 'Constance'.

Highly Commended Certificate (HCC) 76 points. *Cym.* (Poetic Fair x Stargard). Grower, Carl Slusarczyk. Hybridiser, Bryants Orchids. Round clear white flowers carried on tall inflorescences. Labellum is wide and well displayed with white almost completely covered by pink edging suffused with fine red spots and prominent yellow centre and keels.



Update on ACS Award to Cym. Louie's Pride 'Oasis'
featured in the June/July issue which was published without its cultivar name 'Oasis'. At the time of granting the award the paperwork lodged did not include the cultivar name, but that information has since been supplied to complete the ACS award records.



Cym. Surman's Blush 'Winter Ruby'.

Certificate of Excellence – Distinctive Feature. *Cym.* (Panama Red x Terama). Grower, Claude Surman. Awarded for very dark, smooth red colouring. Flowers flat and open in shape. Labellum is white with a dark red band and a white edge.



Cym. Firevieux 'Hadfield Triply'.

Certificate of Excellence – Distinctive Feature. *Cym.* (Firewheel x Vieux Rose). Growers, Keith and Judy Podger. Striking peloric flower triangular in shape with labellum markings and shape repeated in the petals. Labellum and petals are white spotted pink on the edges with yellow keels. Sepals are green overlaid pink.



Cym. Sleeping Sharon.

Award of Quality (AQ) for group. *Cym.* (Sharon x Sleeping Beauty). Grower, Murray Weston. Hybridiser, Easy Orchids. Grex showed consistency in inflorescence length and flower count. Flower form reasonable to good with two clones receiving quality awards.



Cym. Ruby Valley

Highly Commended Certificate (HCC) 75 points. *Cym.* (Ruby Eyes x Valley Regent). Grower, E Symes. A large plant filling a ten-inch pot carried 12 straight spikes with a total of 276 intermediate-sized blooms. Colour dark red/purple. Labellum white and heavily banded dark red.



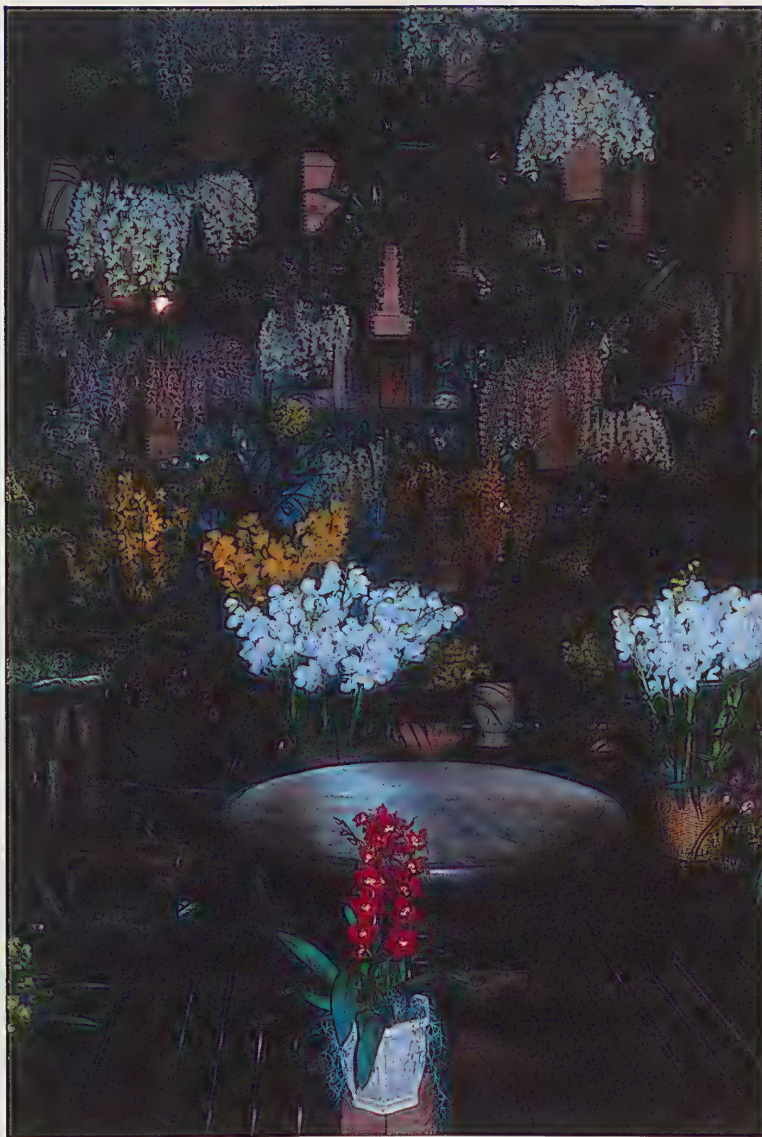
Cym. Sleeping Sharon 'Cambridge Dream'.

Highly Commended Certificate (HCC) 75 points. *Cym.* (Sharon x Sleeping Beauty). Growers, Elmore and Pam Leske. Plant presented with four tall inflorescences carrying 12, 13, 17 and 18 blooms. Flower colour lime green with white labellum lightly blushed pink on edges and carrying some pink spotting distally.



Cym. Cricket.

Certificate of Excellence – Outstanding Culture. *Cym.* (*devonianum* x *madidum*). Grower, Stephen Thomas. Hybridiser, Greenoaks. An outstanding presentation of a clean well cultured plant carrying 39 pendulous racemes evenly spaced around the plant. Colour dark brown/red with cream edges on petals. Labellum solid dark red with red/black blotches either side of the throat.



Mukoyama Orchids display – Japan Grand Prix 2003.

Cymbidiums in the Japan Grand Prix

Text and photography by Kevin Butler

The Japan Grand Prix is considered to be the largest orchid show in the world. Nearly half a million people will visit this show which is held in Tokyo every year at the end of February going into March. More than 30 overseas countries are involved in the show with 1,200 individual plants being entered for judging with the best orchid in the show winning a

Mercedes car and \$30,000 in prize money. The show is held in a baseball stadium and the displays are spectacular as it is common for the Japanese to spend \$20,000 or more to put them together. Mukoyama Orchids won the best display this year, and they often feature pendulous cymbidiums and have a great ability to make them look spectacular.

Cymbidiums in the Japan Grand Prix show are divided into two major sections. The largest section having the most plants entered for judging is for oriental cymbidium species, which includes the native Japanese species such as *Cym. goeringii*, *Cym. lianpan*, *Cym. sinense*, *Cym. kanran* and their natural hybrids and primary hybrids. Any other *Cymbidium* hybrid or

species not from Japan, China, Korea or Taiwan is judged in the other section. There are only two colour classes by which these orchids are judged, whereas the oriental *Cymbidium* species have ten classes with even classes for deformed flowers and foliage only.

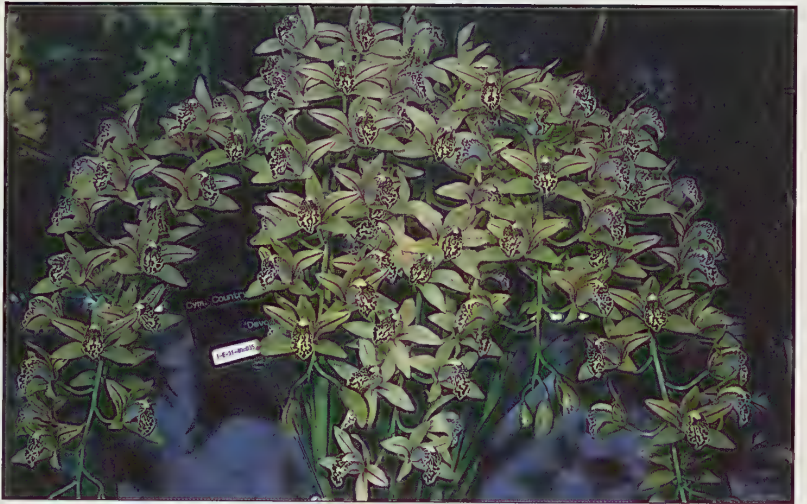
I will be restricting this report to cymbidiums that don't include the oriental species. This year was an excellent year for the number of cymbidiums entered and I counted 70 individual entries that were entered into the two colour classes. This would be close to twice the number I have seen at previous shows. Because there was such a large number of entries for just two classes, the organisers allow the judges to grant two seconds and two thirds if there are more than 20 entries in a class, but still only one first.

Cymbidiums did well in the overall judging with three cymbidiums getting prize money as well as trophies. To achieve this you have to get in the top 13 plants judged in the show. *Cym. goeringii* 'Melbina' came eighth in the show followed by *Cym. lianpan* 'Surien'. *Cym. Eaglewood* 'Konichi Suzuki' came 13th. *Cym. Eaglewood* was a hybrid registered by Valley Orchids in 1981 and was produced by R N Martin. Its parents are (Zumma Boyd x Wyanga). 'Konichi Suzuki' I consider to be a western style *Cymbidium* rather than what the Japanese public normally prefer as a *Cymbidium* pot plant. Foliage was large and spike length was long. Flowers were not touching each other so there were gaps on the raceme. Colour was good in that the colour was a clean and bright apple green. A heavily barred red labellum contrasted with the petal colour. It was the winner of the green, yellow, orange and other colours class. The winner of the other class for white, ivory, pink, red, or brown was *Cym. Ruby Shower* 'Murasakishikibu'. The parentage of this orchid is (*devonianum* x Rathel) and was registered in 1995 by O N Takaki. There were two plants of it in the show and the judges chose the plant that was left to cascade, which made the racemes look longer on this plant. Several years ago I saw a chance tetraploid from the mericlone of the diploid form of *Cym. Ruby Shower* 'Murasakishikibu' in one of the nurseries I usually visit and I was very impressed. I was unable to purchase a piece at the time but, as it was going to be mericlone, I ordered some clones. In the meantime the nursery was sold as the business went bankrupt, and I never got my clones.

The *Cymbidium* that impressed me the most in the show was *Cym. Arkaba* 'Ice Bird'. This cross was also made by Valley Orchids and was registered in 1987.



Cym. Arkaba 'Ice Bird' a Valley Orchids hybrid.



Cym. Country Cassandra 'Devon'.



Cym. Nagalex 'Shunrai'.

Parentage is (Sleeping Giant x Sarah Jean). 'Ice Bird' has excellent colour being a pristine white with yellow markings in the labellum. Flower shape was good and the substance of the blooms was firm. Our judges in Australia would consider it to be bunchy but I thought it looked appealing in the manner it was shown. The spike was allowed to flower naturally and was semi-pendulous with the flowers below the foliage.

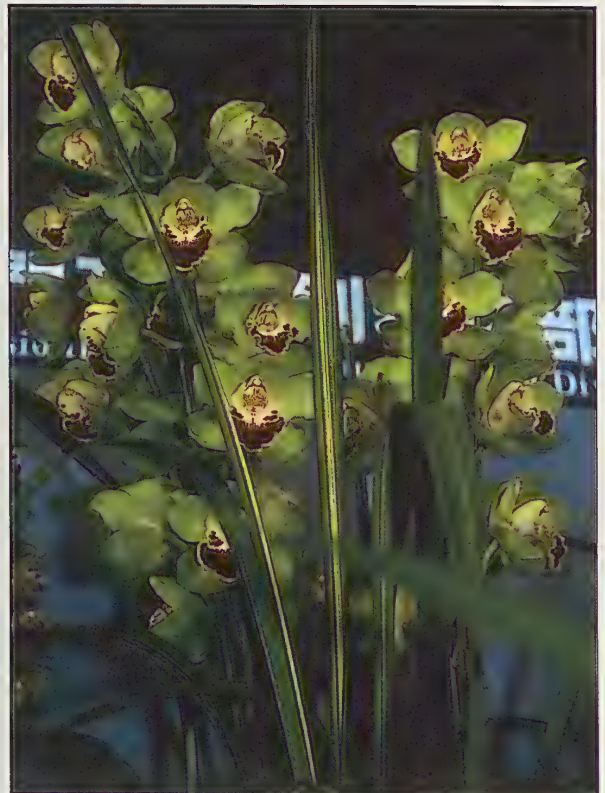
In third place came *Cym. Enzan Knuckle*. An unusual spotted flower from the parentage of (*tracyanum* x *Signal*). *Cym. Enzan Knuckle* was registered in 1999 by Mukoyama Orchids. Lots of flowers from many spikes but the shape was ordinary and the colour was dull, although the spotting was interesting. The other third place winner in the same class was *Cym. (insigne x lianpan) 'Sakurazaka'*. Lots of pastel flowers on racemes held above the foliage and the flower form was typical of what is obtained from narrow-petalled species. The foliage was considered compact and *Cym. lianpan* may have some desirable features in hybridising as can be seen from this cross and I would like to see more work done with it. Mr Takehiko Mukoyama from Mukoyama Orchids was the exhibitor of this orchid, plus many more of this new line of breed-



Cym. Ruby Showers 'Murasakishikibu'.



Cym. Eaglewood 'Kanichi Suzuki' (hybridised by Russell Martin).



Cym. Eaglewood 'Bell Tree' (mericlone mutation).



Cym. (insigne x lianpan) 'Sakurazaka'.



Cym. Eastern Bunny 'Haronstsuki'



Cym. Enzan Moon 'Al Nair'.



Cym. Enzan Knuckle 'Elara'.

ing, and he has also remade many of the old hybrids for us to enjoy. I thank him for his initiative and his experimenting with the production of these new hybrids and it is great that he is prepared to show the outcome whether it is successful or not too.

Cym. Enzan Moon 'Al Nair' is one of the Japanese-type cymbidiums that I like and it gained a second place. A very bright yellow, medium-sized bloom with some red spotting forming an edge on the labellum. The rest of the labellum being white highlighted the bright yellow in the petals and sepals. The flower was cuppy and the arrangement was close without being too bunched. Flowers were above the short foliage. *Cym. Enzan Moon* is a cross of (Lovely Moon x Lovely Bunny) and was registered in 1997 by Mukoyama Orchids. *Cym. Lovely Moon* has *Cym. Coraki* and *Cym. Wallara* genes. The *Cym. Lovely Bunny* has been responsible for the bright yellow colour and *Cym. Lovely Moon* for the full shape. A very desirable orchid and one that I would like to hybridise with.

Cym. Country Cassandra 'Devon' was the other second place winner and also gained a bronze medal. A mass of flowers with spikes carefully trained to produce a spectacle. Geyserland Orchids made the cross in 1994 from (*Devon Parish* x *Western Movie*). Both parents have a *Cym. parishii* background with *Cym. Blue Smoke* and *Cym. devonianum* being the other grandparents. The *Cym. parishii* influence can be seen in the flower the spotted labellum and the size of the flower. The colour of the flower being white-ish has also been strongly influenced by the *Cym. parishii* genes. An interesting hybrid that has produced a desirable outcome.

The third place winners were *Cym. Niobe* 'Pixy Magic' and *Cym. (goeringii* x *Sleeping Beauty*) 'Haruichiban'. Both crosses are novelty types. *Cym. Niobe* is a cross of *Cym. (Eburneo-Lowianum* x *tigrinum*), a hybrid registered in 1916 by J Fowler. An interesting outcome for the labellum was nearly white, the petals and sepals were a clear green, and the flower size was medium. The vertical sepals were held very high and nearly horizontal. The petals were held up high and were tucked into the dorsal sepal. Flower count was low due to the influences of *Cym. eburneum* and *Cym. tigrinum*. Colour was interesting but shape was less than desirable.

I have seen other crosses with *Cym. goeringii* and it has a very strong influence on reducing flower count of the other parents so only two or three flowers result from this form of breeding. The width of the flower segments was excellent in *Cym. (goeringii* x *Sleeping Beauty*) 'Haruichiban'. *Cym. goeringii* also has a strong influence on its hybrid's petals making



Cym. Tiger Tail 'Pixie'.



Cym. Niobe 'Pixy Magic'.



Another view of the Mukoyama Orchids display.

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them fall in a forward position. This prevents the circular of full shape that we desire, but the most desirable feature that *Cym. goeringii* passes on to its progeny is the tiny, compact foliage.

Two other hybrids with *Cym. lianpan* were on display and the best of these was *Cym. (lianpan x lowianum)* 'Shunshoku'. The colour was apple green, clean and crisp, with faint red spotting on a turned under labellum. Petals and sepals were narrow but it had character, which I liked. The spike was upright with a reasonable flower count and flower arrangement. *Cym. (lianpan x Alexanderi)* did not appeal to me as much as the others as to me it is a hybrid that needs more work to reach a desirable outcome. The colour was a washed-out pink and the flowers got lost in the foliage.

Getting away from the species, it was interesting to see a *Cymbidium* showing feathering due to a mutation in the cloning process. The plant was from a clone of *Cym. Eaglewood* and was given the cultivar name of 'Bell Tree'. Not only was the colour in the flower showing feathering, but also the foliage showed some variegation in the colour of the leaves, a feature that is not common.

Cym. Lovely Angel 'Angel Feather' was another attractive *Cymbidium* carefully trained to the flower spikes were perfectly displayed. Lots of white flowers created a stunning display.

Another interesting cross was *Cym. Tiger Tail* 'Pixie'. A cross of *Cym. (tigrinum x Alexanderi)* that was registered in 1960 by Fred Stewart Inc. There appears to be a greater increase in the use of *Cym. tigrinum* recently in Japan. The plant was compact in growth with a flower count of about six blooms. Again, the nearly pure white labellum stands out against a yellowish green flower. This hybrid shows the potential that *Cym. tigrinum* can have but I would like to see today's great parents being combined with it.

Cym. virescens is a species that has been rarely used. It was popular mainly in the 1960's and 1970's. On show were several cultivars of *Cym. Nagalex*, which is a cross of *Cym. (virescens x Alexanderi)*. This hybrid was registered in 1964 by H Nagano and, on doing further research on *Cym. virescens*, I found that it is a synonym for *Cym. goeringii*. It appears that *Cym. virescens*, when used, may produce more blooms per spike than the normal *Cym. goeringii*. Also, the foliage was not as compact but the petals falling forward were still present.

The last of the crosses to be mentioned as *Cym. Eastern Bunny*, a hybrid of *Cym. (goeringii x Lovely Bunny)*. The resulting flowers were quite attractive and the



Cym. lianpan 'Surien'.

flower took on the appearance of a *Cym. goeringii* but with broader segments. The outcome did not show true albinism as the column had a pink tinge and another clone had some pink spotting in the labellum. Again, flower count was restricted to three or four blooms per raceme.

It is interesting to see work being done

using a different gene pool and I get the feeling that *Cym. tigrinum* hybrids may be the next craze in Japan, but only time will tell.

Kevin Butler

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Cym. (lianpan x lowianum) 'Shunshoku'.

“Little Aussie Beauties”

A look at *Cymbidium suave* hybrids

Part 3

By Dean Roesler

Although not credited with registering the first *Cym. suave* hybrid, Dr Miles Seton will no doubt go down in history as the pioneer of *Cym. suave* breeding. Part 3 of this series is devoted to reflecting on Miles and time spent with him at his prop-

erty on the outskirts of Bermagui, a tourist resort on the far south coast of New South Wales (NSW).

A trip to Bermagui

Kalbeeba on the edge of Gawler in

South Australia is a long way from Bermagui. I did not go there like Zane Grey, renowned American writer, or Greg Norman, Australia's golfing legend, fondly referred to as the “Great White Shark”, to fish for the big black marlin that inhabit the waters surrounding this coastline. My mission was to meet Dr Miles Seton and document the life story about his work hybridizing with *Cym. suave*.

Mary and I made the trip to Bermagui on five occasions, the first time in late July 1994. Miles made our friends travelling with us on four of these trips most welcome. They all enjoyed the beauty of his property and its surrounds, the time spent wandering amongst his orchids and, listening to the interesting stories he told.

Where the great fire ended

High on the cliff-tops overlooking Bermagui and surrounding coastline stands an impressive two-story house built on a large 15ha block of land called Nerimbah which, translated from the Aboriginal language means “Where the great fire ended”. It features magnificent views of the sea and backs on to wooded bushland. It was here I met Miles and shared a common passion.

Miles and wife Gwen moved there in 1972, deciding on an early retirement from his medical practice in Hurstville, Sydney, after tragedy had struck their lives with the untimely death of their only son Michael who was in his 3rd year of a medical degree.

Miles develops an interest for cymbidiums

Growing and hybridizing cymbidiums became his pastime, with frequent trips to the orchid auctions in Sydney to purchase more stud plants. At least monthly he would leave Bermagui in his Landrover at about 2.00am arriving in time for the auction at 9.00am. Then with his load of plants he would drive through the night, arriving back home next morning.

Three shade houses were built to hold his increasing collection. Built amongst the natural bushland setting at the rear of the house and just metres away from the cliff edge. These timber framed buildings,



An aerial view of the magnificent coastline surrounding Bermagui. Seton Beach is in the foreground, with Miles Seton's property taking in part of the heavily timbered bushland behind the house that is just visible in the clearing in front of it and the bushland that extends right to the cliffs edge. The township of Bermagui is visible on the narrow stretch of land jutting into the sea.



Miles home, high on the cliff tops of his beautiful property called Nerimbah, just south of Bermagui on the south coast of New South Wales



One of the orchid growing houses featured amongst the delightful, natural bushland setting



Distribution of *Cym. suave* shown in yellow

each approximately 15m by 5m were covered with varying percentages of glass on the walls and with shade cloth roofs, and acted as both growing and flowering houses – the plants remaining permanently within.

This idyllic setting for orchid growing houses never ceased to amaze, with the close proximity of trees to buildings flying in the face of experts who would certainly

not recommend such conditions. Nevertheless, it became apparent to me quite quickly that these buildings were correctly positioned, running length ways from east to west, to gain maximum sunlight by coinciding with the path of the sun's axis.

A passion for *Cym. suave*

Miles was first introduced to the species

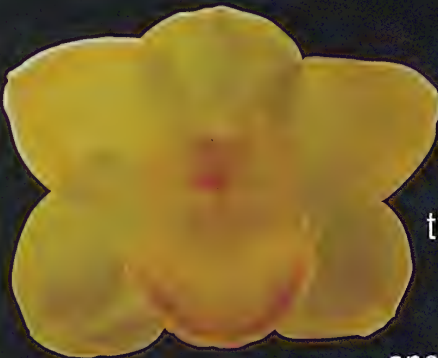
Cym. suave as a teenager when he saw it growing in its natural environment whilst holidaying at Huskisson near Jervis Bay on the south coast of NSW.

Cym. suave, which grows profusely in the Bermagui area became his favourite orchid and he became engrossed in trying to breed with it. The ultimate quest for Miles was to produce summer flowering cymbidiums. He achieved that aim to a

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degree, with a number of *Cym. suave* hybrids still looking quite good in December and even into January.

Cym. suave and its habitat

The Australian Cymbidium species *suave* is found growing in a long narrow belt from southern NSW starting just above the Victorian border and extending northwards along the eastern coast, to southern Cape York in Queensland. It can be found growing from sea level to an elevation of about 1,200m, preferring the

coastal areas and never venturing over to the drier side of the Great Dividing Range.

It grows in the hollow boles and burnt out and rotting trunks of a variety of eucalyptus. In the forks of these trees it can be found at heights of 20m and more, or near ground level in the rotting stumps of sawn down trees. One could describe its preferred habitat as open forest environment.

A lasting friendship

My friendship with Miles was very special and time spent amongst his orchids;

looking at *Cym. suave* in its natural surroundings; discussion about our mutual enthusiasm for cymbidiums over a scotch or two in front of a cosy wood-fire, will be remembered forever.

In the next part of this series of articles we will again analyze one of the *Cym. suave* hybrids created by Miles.

Dean Roesler
20 Lawson Road
Kalbeeba,
SA5118



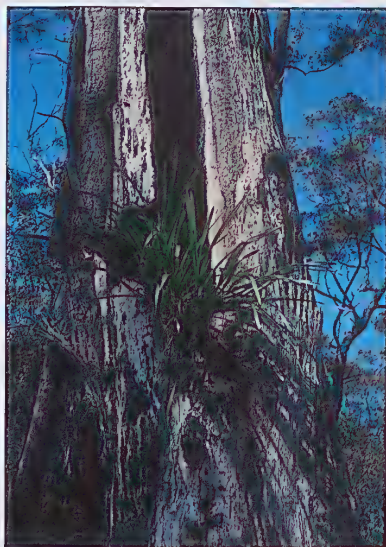
This is typical *Cym. suave* habitat around the Bermagui area. Open forest environment scattered with cycads called "Burrawong" by the local indigenous people



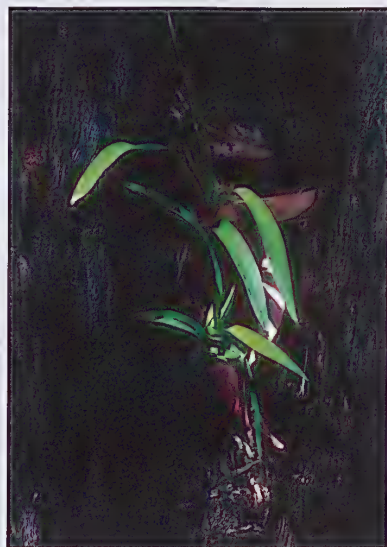
A huge *Cym. suave* plant (approx. 2m across) growing over 20m above ground level in a Spotted Gum (*Eucalyptus maculata*)



This clone of *Cym. suave* 'Sweetie' received a Bronze Award from the Cymbidium Society of America for its owner Grant Cole, who also happened to be a good friend of Miles



A fine example of a *Cym. suave* plant growing in the rotted and burnt out trunk of a large Coastal Box tree near Bermagui. Two other plants inhabit the same tree trunk high above this plant, making a most impressive sight



The resilience of *Cym. suave* is demonstrated here. A small plant burnt during a bush fire, or a controlled burn, quickly emerges with fresh new leaves from amongst a charred tree

Learning About Growing Cymbidiums at the TAFE's Adult Education College

Text by John Snedden

Learning about growing cymbidiums at the Adult Ed. – Just recently I taught a course at the Launceston Adult Education College entitled 'How to Grow Cymbidium Orchids'. This was the first time that this course was given at the Launceston facility. Only seven persons attended (we believe that there will be more students attending the next course in October). It was most interesting for me as the tutor to hear how people, who are not members of an Orchid Society, grow their cymbidiums. For example, only one person in the class grew their cymbidiums in a specially constructed fernery or shade house. Most students grew their plants on a verandah or patio, or outside in the shelter of a back or side fence. About half the class had little idea about the basics of *Cymbidium* growing, particularly watering and fertilising routines and the re-potting and dividing of large plants. This information was not only gathered by what the students shared in the class, but also by inspecting the *Cymbidium* plants from their collection that the students brought into the class for analysis and action.

Treat them carefully or they'll die – Most students were under the impression that cymbidiums are sensitive and delicate and, therefore, if you 'mishandle' them or do the wrong thing to them, like re-potting at the wrong time of the year, or dividing up a large plant 'wrongly', then the *Cymbidium* would die. There was a verbal outcry from the class during a potting demonstration when I hit firmly, with my hand, a plant's entangled root mass to dislodge the remaining potting mix. It seemed that the students were seeking to defend the presumed 'sensitive and delicate' plant against my excessive and unnecessary use of force, which they presumed would surely kill the plant. Because of this perception that you must handle cymbidiums carefully I noted that most students, therefore, erred on the side of caution and did nothing with their plants when confronted with a pot bound and/or non-flowering plant.

Plant care demonstrations – One of the plants brought to the class to be 'fixed' was a small plant in a big pot which had only one small hole in the bottom. When we took the plant out of the pot it was clear

that the whole root system had rotted (although the plant was very much alive). Water almost ran out of the remaining potting mix when we tipped it out onto the table. This scenario offered a good talking point about pot size, the purpose of holes in the pots and the causes of root rot.

Another plant belonging to another student was potted in what seemed to be mud in the bottom half of the pot, topped up with flower potting mix in the top half of the pot. The inside of the pot was lined with a plastic bag with a few holes in the bottom to 'let the water out'. From this the class learnt a lot about potting mixes and their functions.

There are exceptions to the rules – Here's another 'incident' that I should mention. One student brought in one very large plant with its pseudo bulbs literally hanging over the edge of the pot. Some of pseudo bulbs were pointing upward and some were lying very horizontally. Despite this neglect and disorder there

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were two very healthy flower spikes about ten centimetres long protruding from the disorganised mass of bulbs. I do confess that I had, before having seen these two flower spikes, told the class that cymbidiums in such a neglected condition most probably would not flower. Oops! Later, I had the plant's owner divide up the plant while I protected the two flower spikes from being snapped from the plant. We had to cut the ten-inch pot from the plant with our knife. Then, with much effort, and using the same knife (I forgot to bring a tomahawk to class), this plant's proud owner created three new *Cymbidium* divisions from her one original plant. Two of these new divisions still proudly displayed a developing flower spike – so here's hoping that they survive and flower! Another student related how she

keeps her cymbidiums outside all year round along the side of the fence and are brought onto the verandah when in flower. Previous to hearing this story I had told the class that it is not advisable to leave cymbidiums outside any time of the year if they are not under at least a shade cloth roof considering the cooler temperatures here in Tasmania. Oops again! Another exception to the rule.

Commitment to the cause lives on – As I was giving the 'all day Sunday' course I saw in my students' interest levels and responses a commitment to learn about understanding and growing cymbidiums. Many of the students were counted among those people who buy cymbidiums from suburban nurseries and garden shops, from sales tables at annual orchid shows, from 'garage' sales, and those who get given a

Cymbidium by despondent and frustrated friends who have failed to flower them. Often these people get told, or assume, many erroneous things about how to grow cymbidiums – I have noted that people who come by their cymbidiums in these ways often do not get given the information needed to grow their newly acquired plants well. Growing cymbidiums, and all orchid genera, should not be the exclusive domain of the 'initiated', that is, members of Orchid Societies, therefore...

Seize the day – Could I suggest that we orchid enthusiasts need, at times, to assume the role of instructors and 'informers'. We can do this my making freely available at our annual shows simple written information about how to grow cymbidiums, and other orchids as well. Give out such leaflets with all plants bought at the sales table. Not all people interested in orchids (and this includes maybe many who buy plants from our sales tables), are going to join our society. Nor are they going to build a fernery or shade house dedicated to orchids. So, let us look for opportunities to encourage and help interested people in our communities who have a few cymbidiums or other orchids to grow them well – even if they grow them in their back yard near the fence, or on their back verandah, on the porch, under a lean-to on the side of the house, or in the old, disused chicken house. With this in mind, maybe your orchid society could organise your own 'How to Grow Cymbidium Orchids' day courses. Maybe your local Adult Education College might be willing to include a course on growing cymbidiums or other orchids with you as tutor. I'd be happy to send you a copy of the notes I used if it would help you (contact me at the address below). Let's get together... and 'seize the day'.

Dr John Snedden
1 Diprose Street

Kings Meadows, Launceston,
Tasmania 7250.

Email: snedden93@ozemail.com.au

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Collecting, Storing and Using Cymbidium Pollen

Text by Rob Smith – Photography by Dean Roesler

Ever flowered a *Cymbidium* you've considered making a hybrid with but haven't had much else in flower to combine it with, or have wanted to cross it with something which flowers much earlier or later? If you have, why not store some pollen until the flower you want to put it on is open?

It's quite easy to do and most orchid pollen, including *Cymbidium* pollen, can be kept for quite some time if stored properly. You won't need any fancy equipment either. For those interested here's our method. Firstly, you'll need toothpicks, aluminium foil, envelopes, and a refrigerator (preferably a butter compartment in the door if you don't use it for butter – we don't – so the two in our door store pollen and rolls of film).

We cut aluminium foil into pieces about 100mm square, but size isn't too critical. Then, having selected the plant we wish to collect the pollen from, we begin the harvesting. If you're unsure how to go about it, then refer to Dean Roesler's excellent article and photographs from the April/May issue of AOR (Vol. 65, No. 2). Dislodge the pollen caps with your toothpick – usually this leaves the two pollen grains exposed on the end of the column but, sometimes, they'll come off with the cap and will need to be coaxed out. The pollen grains are attached to a sticky little section in the end of the column and, if you put the tip of the toothpick under this, you can dislodge the pollen attached to their little sticky pad. Both the pollen and pad can then be wiped off onto the foil, and then another flower can be harvested.

Pollen should be a nice, clean yellow colour and is best harvested shortly after the flowers open. Dull, dark, orangey coloured pollen is a fair indication of age and may or may not be viable. Brown or grey pollen is well past its use by date and will invariably waste your time – don't even bother collecting it. A very small percentage of cymbidiums (most often reds for some reason) have pollen which goes bad very quickly and, in some cases, the only chance of getting viable pollen from them is to tear open a flower which is just starting to open. Others seem to be remarkably virile and still have viable pollen six or even eight weeks after opening but, generally, the fresher the better.

Having collected as much pollen as you want, or can get, and placed it in the centre of the foil in a little cluster, fold the foil over the pollen making a small, flat parcel. Write the name of the orchid on the envelope, place the



The pollen cap in place on the stigma or column.



A toothpick being used to remove the pollen along with their little sticky pad.

pollen parcel in it, and put it in the fridge. Repeat the process if you're collecting pollen from more than one orchid, but use a new toothpick for each orchid, please. It prevents possible contamination by disease, fungi, or

the like, and prevents any pollen from the last plant getting mixed in. It's a long time to wait for a crossing to flower to find out that the cross isn't the one you wanted due to some stray pollen getting mixed in! Remember,

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pollen grains are tiny, each of those little yellow balls you collected contains thousands of individual grains.

We generally have no trouble storing pollen for 12 months and have successfully used pollen over two years old, but that can be a little risky. If you haven't got access to the butter compartment in your fridge (some people insensitive to orchids having priority insist on keeping butter there!) then a plastic container with an airtight lid is fine. The idea is to keep the pollen cool but dry. A soggy envelope on the fridge shelf will probably lead to mouldy, unusable pollen.

When it comes time to use your safely stored pollen, simply open the envelope and the little foil parcel and select a clean toothpick. The pollen should be in perfect condition – still nice and yellow just like it was when you collected it – although it will be rather dried out and hard and you may want to reconstitute it to make the job of pollinating easier. Some people believe you'll have more chance of getting germination if the pollen is re-hydrated before use. We've had success with pollen straight from the packet so to speak, but it's probably worth giving yourself every possible advantage. Some people soak the pollen in a little sterile water for ten or 15 minutes – lukewarm boiled water from the kettle seems to work just as well and we usually use that. Just a few millilitres in a small saucer is enough, and ten or 15 minutes seems about right to soften up the pollen sufficiently.

Remove the pollen from the flower you wish to pollinate, then fish the soaking pollen out with your toothpick and push it gently into the recess just behind the spot you have removed the pollen from on the flower to be pollinated. Once this is done I like to squeeze the tip of the column GENTLY between finger and thumb to make sure the pollen is firmly in place and good contact has been made with the column's receptive surface – but this is up to you.

If all goes well, you should have a pod, or pods, ready for the laboratory in six or seven months. Oh, and by the way, if you don't use all your stored pollen at one time simply fold the foil back over and drop it back into the envelope and back to the fridge it goes ready for the next time. It really isn't difficult to store and use pollen, and how else are we to get those hybrids from parents which flower at different times of the season? Storing pollen is also very handy when you are given a spike of flower by someone and you want to use it with a particular plant of your own in the future – or when one potential parent flowers and the one you want to cross it with doesn't flower that season – that happens too!

Rob Smith
24 William Hunter Court
Rosebud, Victoria 3939



With the pollen removed from the flower it can be transferred to a piece of clean aluminium foil.



Stored and re-hydrated pollen being placed in the cavity on the underside of the stigma or column.

Van Schaik's BIO-GRO National Cymbidium Show Sponsors

These days sponsorship seems to be everywhere – from the name on your local football stadium, sports clobber, race meetings, community events, environmental campaigns, and so on. No available space is left uncovered, even the stumps on cricket pitches carry someone's name and logo. While at times sponsorship may seem so all pervasive that we probably take it for granted, block it out, or even complain about it, the simple fact is that it makes the difference between many events ever going ahead as opposed to disappearing altogether. In the case of orchid shows and, in particular, the National Cymbidium Show it's success and continuance is assured through sponsorship, whether large or small. Certainly without the plants and flowers there wouldn't be a show but, equally, without the sponsorship support providing venues, prize money, trophies, ribbons, advertising, etcetera, such shows wouldn't be possible either.

The Australian Cymbidium Society (ACS) and state Cymbidium clubs are fortunate to

have a number of loyal and generous sponsors who support our shows each year, among them the firm of Van Schaik's BIO-GRO, who have been joint naming rights sponsors to the national show for several years now. Unlike sponsors in other areas who's only concern is publicity, companies such as Van Schaik's BIO-GRO are actually involved in the horticultural business, of which orchid growing is a part. Their range of horticultural products, especially their orchid growing media and processed pine barks have built up a reputation for quality and reliability second to none in their field. A straw poll at orchid shows such as the National Cymbidium Show would probably show that a large percentage of the growers exhibiting, both commercial and hobbyist, are users of Van Schaik's BIO-GRO bark – either as their sole potting media, or combined with other ingredients, not because of Van Schaik's BIO-GRO sponsorship but because their products meet those growers needs. ■



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SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
New South Wales				
15-16 August	9.00am-4.00pm	Winter	North Shore Kuring-gai	St. Ives Showground
17 August	9.00am-3.00pm	(St. Ives Orchid Fair)	Manly Warringah ANOS	Mona Vale Road, St. Ives
15-16 August	9.00am-5.00pm	Winter	Sapphire Coast	Twyford Hall
17 August	9.00am-1.00pm		Orchid Coast	Merimbula
16 August	10.00am-4.30pm	Winter	Bellingen Valley	Uniting Church Hall, Bellingen
18-23 August	Shopping Centre Hours	Winter	Bankstown	Bass Hill Plaza, Bass Hill
21-23 August	8.30am-6.00pm	Winter	Central Coast & Hunter Region Cymbidium	Lake Macquarie Fair Wilson's Road, Mount Hutton
21 August	9.00am-9.00pm	Winter	Western Suburbs	Ashfield Mall
22-24 August	9.00am-6.00pm			Ashfield
25-27 August	Shopping Centre Hours		Macleay Valley	Credit Union Plaza, Kempsey
27-31 August	9.00am-5.00pm	Winter	Parramatta District	Castle Hill Mall, Terminus Street, Castle Hill
27-30 August	Shopping Centre Hours	Winter	South Coast	Corrimal Park Mall, Princes Highway Corrimal
28-30 August	9.00am-5.00pm	Winter	Port Macquarie	Settlement City Shopping Complex, Port Macquarie
30 August	10.00am-5.00pm	Spring	ANOS -	Club Macquarie
31 August	9.00am-3.00pm		Newcastle Group	Lake Road Argenton
3-4 September	8.00am-9.00pm	Spring	Alstonville	Alstonville Shopping Centre
5-6 September	8.00am-12 noon			Alstonville
3-6 September	Shopping Centre Hours	Spring	Boolaroo	Wallsend Plaza, Wallsend
3-6 September	Shopping Centre Hours	Spring	Cumberland Orchid Circle	Winston Hills Mall Cnr. Langdon Road & Caroline Chisholm Drive, Winston Hills
4-7 September	Shopping Centre Hours	Spring	Campbelltown & District	Macarthur Square Shopping Centre, Gilchrist Drive, Ambarvale
4-6 September	Shopping Centre Hours	Spring	Hawkesbury District	Richmond Marketplace, March Street, Richmond
4-5 September	9.00am-4.00pm	Spring	Nambucca Valley	Entertainment Centre
6 September	9.00am-3.00pm			Ridge Street, Nambucca Heads
4-6 September	9.00am-5.00pm	Spring	North Shore	Willoughby Civic Centre
7 September	9.00am-4.00pm			Victoria Avenue, Chatswood
4-5 September	Shopping Centre Hours	Spring	Tweed District	Tweed City Shopping Centre Tweed Heads
5 September	10.00am-5.00pm	Spring	Eurobodalla	Community Centre
6 September	9.00am-3.00pm		Orchid Club	Museum Place, Batemans Bay
6 September	11.00am-4.30pm	Spring	Griffiths	Wade High School
7 September	9.00am-4.00pm			Poole Street, Griffith
8-13 September	Shopping Centre Hours	Spring	Bankstown	Chullora Market Town, Chullora
8-13 September	Shopping Centre Hours	Spring	Eastwood & District Orchid Circle	Macquarie Centre, Cnr. Waterloo & Herring Roads, North Ryde
8-10 September	9.00am-5.30pm	Spring	Leisure Coast	Westfield Shopping Centre
11 September	9.00am-9.00pm			King Street
12 September	9.00am-4.00pm			Warrawong
8-9 September	9.00am-9.00pm	Spring	Manning River	Manning Mall
10 September	9.00am-5.00pm			Manning Street, Taree
10-13 September	9.00am-9.00pm	Spring	Newcastle	Club Nova - Panthers Newcastle
11-14 September	Shopping Centre Hours	Spring	Ballina & District	Ballina Fair Shopping Centre, Kerr Street, Ballina
11-14 September	9.00am-5.00pm	Spring	Berowra & Districts	Australian Flora Festival, Mt. Penang Parklands, Old Pacific Hwy, Kariong
11-12 September	9.00am-6.00pm	Spring	Coffs Harbour	Park Beach Plaza Shopping Centre
13 September	9.00am-2.00pm			Coffs Harbour
11-14 September	Shopping Centre Hours	Spring	Eastern Suburbs	David Jones, Eastgardens Shopping Centre, Hillsdale
11-14 September	9.00am-5.00pm	Spring	Central Coast & Hunter Region Cymbidium	Australian Flora Festival Mt. Pengang Parklands, Old Pacific Highway, Kariong
11-13 September	9.00am-5.00pm	Spring	Sutherland Shire	Swanes Nursery
14 September	9.00am-3.30pm			80 Port Hacking Road, Sylvania
12-13 September	10.00am-5.00pm	Spring	Byron District	Ex-Services Club, Mullumbimby
13 September	11.00am-5.00pm	Spring	Blue Mountains & Penrith District	The Melrose Hall
14 September	9.00am-4.00pm			Great Western Highway, Emu Plains
13-14 September	9.00am-4.00pm	Spring	Illawarra District	96 Market Street, Wollongong
14-20 September	Shopping Centre Hours	Spring	Fairfield District	Stockland Mall, Polding Street, Wetherill Park
16 September	7.00pm-9.30pm	Spring	Sydney	Rembrance Hall, 220 Lakemba Street, Lakemba
19-20 September	8.00am-10.00pm	Spring	City of Lismore	Lismore Central, Lismore
18-20 September	Shopping Centre Hours	Spring	Grafton District	Grafton Shoppingworld, Grafton
18-19 September	9.00am-7.00pm	Spring	Maitland & Coalfields District	Green Hills
20 September	9.00am-4.00pm			
19 September	11.00am-4.00pm	Spring	Shoalhaven	Presbyterian Church Hall
20 September	9.00am-4.00pm			Kinghorn Street, Nowra
19 September	11.00am-4.00pm	Spring	Woodburn	Woodburn Memorial Hall
20 September	9.00am-4.00pm			Pacific Highway
21 September	9.00am-3.00pm			Woodburn
20 September	10.45am-3.00pm	Spring	Gloucester District	C.W.A. Rooms, Church Street, Gloucester
22-28 September	Shopping Centre Hours	Spring	OSNSW	St. Ives Shopping Village, 166 Mona Vale Road, St. Ives
25-26 September	9.00am-5.00pm	Spring	Sapphire Coast Orchid Club	Bega Town Hall, Zingel Place, Bega
26 September	9.00am-4.00pm	Spring	Casino & District	Presbyterian Church Hall
27 September	9.00am-2.00pm			Hickey Street, Casino
27 September	11.00am-5.00pm	Spring	Wagga Wagga	Sturt Public School
28 September	9.00am-4.00pm			Lake Albert Road, Wagga Wagga
4-5 October	9.00am-4.00pm	Spring	Great Lakes	Forster Primary School, Head Street, Forster
10-12 October	Club Trading Hours	Spring	Tweed District	Club Banora, Leisure Drive
4 October	10.00am-5.00pm	Spring	Port Macquarie	Port Macquarie High School, Owen Street, Port Macquarie
4 October	8.30am-3.00pm	Spring	Southern Riviera	Anglican Church Hall, Milton
8-11 October	9.00am-9.00pm	Spring	Newcastle	West's Leagues Club, New Lambton
11 October	9.00am-5.00pm	Spring (Inland Championship)	Albury Wodonga District Orchid Club	Mirambeena Community Centre
12 October	9.00am-4.00pm			19 Martha Mews, Lavington
11 October	10.00am-6.00pm	Spring	Woolgoolga	Yeates Hall
12 October	9.00am-2.00pm			Woolgoolga
12 October	10.00am-4.00pm	Spring	Hastings River (Bago Vineyard Festival of Orchids)	Bago Vineyards
				Bago Road, Wauchope
13-15 October	Shopping Centre Hours	Spring	Macleay Valley	Credit Union Plaza, Kempsey

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
15-18 October	Shopping Centre Hours	Spring	Berowra & Districts	Forestway Shopping Centre, Cnr. Warringah Road and the Forestway
16 October	9.00am-9.00pm	Spring	Western Suburbs	Rockdale Plaza
17-19 October	9.00am-6.00pm			Rockdale
18-19 October	9.00am-4.00pm	Spring 'Orchid Fest'	Gosford & District	'Riverdale Room' Gosford Racecourse, Gosford
23 October	9.00am-9.00pm	Spring	Northern Rivers	Lismore Shopping Square
24 October	9.00am-6.00pm		Orchid Species	McKenzie Street
25 October	9.00am-1.00pm			Lismore
ACT				
4 October	11.00am-5.00pm	Spring	Canberra (South West	St John's Church Hall
5 October	12 noon-5.00pm		Regional Conference)	Constitution Avenue, Reid
Victoria				
23 August	9.30am-4.30pm	Winter	West Gippsland	Public Hall
24 August	9.30am-4.00pm		Orchid Club	Campbell Street, Yarragon
6 September	9.30am-5.00pm	Spring	Sale & District	St. Mary's Hall
7 September	10.00am-4.00pm		Orchid Club	Cnr. Macalister Street and Pearson Street, Sale
11-12 September	9.00am-5.00pm	Spring	Maribyrnong	Maribyrnong Community Centre, Randall Street, Maribyrnong
13 September	10.00am-4.30pm	Spring	Southern Suburbs	Senior Citizens Hall
14 September	10.00am-4.00pm			Cnr. Exley Drive and Neapean Highway, Moorabbin
13-14 September	9.30am-4.30pm	Spring	Victorian Orchid Club	Red Cross Centre, Austin & Repat Hospital, entry gate 8, Waterdale Road, Heidelberg
14-20 September	Shopping Centre Hours	Spring	Mornington Peninsula	Gateway Shopping Village, Cranbourne Road, Langwarrin
13 September	9.00am-5.00pm	Spring (National	Australian	Ararat Arts Activity Centre
14 September	10.00am-4.00pm	Cymbidium Show)	Cymbidium	Town Hall, Barkly Street, Ararat
19-21 September	Shopping Centre Hours to 4.00pm Sunday	Spring	Sunraysia Orchid Club	Centre Concourse Mildura Plaza
				Cnr. Deaking Avenue & 15th Street, Mildura
20 September	9.00am-5.00pm	Spring	Bairnsdale & District	Lucknow Hall
21 September	9.00am-4.00pm		Orchid Group	Ormeo Highway, Lucknow
20 September	9.00am-4.00pm	Spring	Goulburn Valley	Senior Citizens' Club Rooms
21 September	9.00am-4.30pm		Orchid Club	Weltard Street, Shepparton
20 September	9.00am-5.00pm	Spring	Melbourne Western	Werribee Racecourse (Members' Entrance)
21 September	9.00am-4.00pm			Bulban Road, Werribee
20 September	10.00am-4.00pm	Spring	Mid-Murray	Memorial Hall
21 September	10.00am-3.00pm		Orchid Club	Nolan Street, Kerang
20 September	10.00am-4.30pm	Spring	North East	Bulleen Heights School
21 September	10.00am-4.00pm		Melbourne	Pleasant Road, Bulleen
20 September	9.30am-4.30pm	Spring	West Gippsland	Mawarra Centre
21 September	9.30am-4.00pm		Orchid Club	Percy Street (off Albert Street), Warragul
26-27 September	10.00am-4.30pm	Spring	Stawell	Stawell Entertainment Centre
28 September	10.00am-4.00pm			Main Street, Stawell
26-27 September	9.00am-4.30pm	Spring	South Gippsland Orchid Club	Town Hall, Baillieu Street, Wonthaggi
27 September	9.00am-5.00pm	Spring	Australasian	Mount Waverley Community Centre
28 September	9.00am-4.00pm		Native	47 Miller Crescent, Mount Waverley
27-28 September	9.00am-4.00pm	Spring	Berwick Orchid Club	Senior Citizens' Hall, 112 High Street, Berwick
27 September	9.00am-5.00pm	Spring	Maroondah	Blackburn High School Hall
28 September	9.00am-4.00pm			Cnr. Springfields & Blackburn Road, Blackburn
27 September	10.30am-5.00pm	Spring	Wangaratta & District	Ovens College Assembly Hall
28 September	10.00am-4.00pm			Greta Hall, Wangaratta
3 October	1.30pm-5.00pm	Spring	Bendigo	YMCA Leisure Centre
4 October	10.00am-5.00pm		Orchid Club	Browning Street
5 October	10.00am-4.00pm			Kangaroo Flat
4-5 October	10.00am-4.30pm	Spring	Geelong Orchid/Indoor Plant Club	Cnr. Moorabool & McKillop Streets, Geelong
4 October	10.00am-5.00pm	Spring	Gippsland	Lavalla College
5 October	10.00am-4.00pm		Orchid Club	Kosciusko Street, Traralgon
4 October	9.00am-5.00pm	Spring	Melbourne	East Burwood Uniting Community Hall
5 October	12 noon-4.30pm		Eastern Orchid Club	Cnr. Burwood Hwy & Blackburn Rd, East Burwood
4-5 October	9.00am-4.00pm	Spring	Ringwood	Maroondah Secondary College, Brentnall Road, Croydon
4 October	10.00am-5.00pm	Spring	Warrnambool	Warrnambool College Hall
5 October	10.00am-4.00pm		District	Grafton Road, Warrnambool
4-5 October	9.30am-4.30pm	Spring	Warrigal	St. Sava Community Hall, 212 Diamond Creek Road, Greensborough
11-12 October	10.15am-4.00pm	Spring	Colac Orchid Club	Colac High School Assembly Hall, Princes Highway, Colac West
11 October	9.00am-5.00pm	Spring	Horsham & District	Horsham Town Hall
12 October	9.00am-4.00pm			Wilson Street, Horsham
16-17 October	8.00am-9.00pm	Spring	Pine Rivers	Aspley Pick-N-Pay Hypermarket
18 October	8.00am-4.00pm			Gympie Road, Aspley
17 October	2.00am-5.00pm	Spring	Ballarat	SMB Horticultural Centre
18 October	10.00am-5.00pm			Cnr. Gillies & Gregory Streets
19 October	10.00am-4.00pm			Ballarat
18 October	8.30am-4.30pm	Spring	Cobden & District Orchid Club	Cobden Civic Hall
19 October	9.00am-4.00pm			Victoria Street, Cobden
18-19 October	9.30am-4.00pm	Spring	West Gippsland Orchid Club	Mawarra Centre, Percy Street, Warragul
18 October	9.00am-5.00pm	Spring	Yarra Valley	Public Hall
19 October	10.00am-4.00pm			Warburton Highway, Seville
Queensland				
8-10 August	9.00am-5.00pm	Spring	Maroochydhore	Milwell Community Hall, 11 Milwell Road, Maroochydhore
28-30 August	Gold Coast Show Hours	Spring	Gold Coast	Jupiters Pavilion, Parklands Show Grounds, Parklands Drive, Southport
28-29 August	8.00am-9.00pm	Spring	Pine Rivers	Deception Bay Shopping Centre
30 August	8.00am-4.00pm			Deception Bay
30 August	8.30am-4.00pm	Spring	Logan & District	Logan Central Community Centre
31 August	8.30am-3.00pm			Cnr. Jacaranda Ave & Wembley Rd, Woodridge
30 August	9.00am-5.00pm	Spring	North Brisbane	Auditorium
31 August	9.00am-4.00pm			Botanic Gardens, Mt. Coot-tha
3-6 September	Shopping Centre Hours	Spring	Redcliffe District	Peninsular Fair, Kippa-Ring
4 September	8.00am-9.00pm	Spring	Innisfail	Central Arcade
5 September	8.00am-5.00pm			Innisfail
4-6 September	Shopping Centre Hours	Spring	Townsville District Orchid & Allied Plants Assoc.	Castletown Shopping Centre
				Hyde Park

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
5 September	9.00am-5.00pm	Spring	Childers & Isis District	Isis Cultural Centre Churchill Street, Childers
6 September	9.00am-2.00pm			
5-6 September	TBA	Spring	Nambour	Woombye School of Arts Hall, Blackhall Street, Woombye
6 September	9.00am-4.00pm	Spring	ANOS – Kabi Group	Lion's Hall, Lawnton Showgrounds Gympie Street, Lawnton
7 September	9.00am-2.00pm			
6 September	9.00am-5.00pm	Spring	Orchid Species	Auditorium Botanic Gardens, Mt. Coot-tha
7 September	9.00am-4.00pm			
11-13 September	8.00am-5.00pm	Spring	Lockyer Valley	Laidley Community Hall, Laidley Plainland Road, Laidley
11-13 September	Shopping Centre Hours	Spring	West Moreton Group	Ipswich City Square, Brisbane Street, Ipswich
12-13 September	7.30am-5.00pm	Spring	Townsville	TOS Hall
14 September	7.30am-4.00pm			Pioneer Park, Thuringowa
12-13 September	8.00am-5.30pm	Spring	Emerald Orchid & Foliage	Emerald Village Shopping Centre, Emerald
13 September	9.00am-4.00pm	Spring	Rockhampton	Rockhampton High School Hall Campbell Street, Rockhampton
14 September	9.00am-3.00pm			
13 September	8.30am-5.00pm	Spring	West Brisbane	Auditorium Botanic Gardens, Mt. Coot-tha
14 September	8.30am-4.00pm			
18-19 September	8.30am-5.00pm	Spring	Maryborough District	St. Pauls Memorial Hall Adelaide Street, Maryborough
20 September	8.30am-1.00pm			
18-20 September	Shopping Centre Hours	Spring	North Queensland Cairns	Westcourt Shopping Centre, Cairns
19-20 September	9.00am-5.00pm	Spring	Noosa District Orchid & Foliage	Memorial Hall, Cooroy
19-21 September	9.00am-4.00pm	Spring	Queensland	Auditorium, Botanic Gardens, Mt. Coot-tha
20-26 September	8.30am-5.00pm	Spring	Darling Downs Orchid Assoc.	Centenary Heights High School Assembly Hall Cnr. South & Ramsay Streets, Toowoomba
27 September	8.30am-1.00pm			
20 September	8.30am-4.30pm	Spring	Eastern District	Wondall Heights State School Assembly Hall, Wondall Road, Manly West, Brisbane
21 September	8.30am-3.30pm			
25-27 September	Shopping Centre Hours	Spring	ANOS – Gold Coast Group	Runaway Bay Shopping Plaza
25 September	9.00am-3.00pm	Spring	Douglas	CWA Hall, Mossman
25-26 September	9.00am-6.00pm	Spring (Carol Hughes Memorial Trophy)	Herbert River	Shop 4, Tancred Centre, Ingham
27 September	9.00am-1.30pm			
25 Sept-1 October	9.00am-5.00pm	Spring	Native of Toowoomba	St. Pauls Lutheran Church, Phillip Street, Toowoomba
26 September	9.00am-5.00pm	Spring	Glasshouse Country	Community Hall Beerwah
27 September	9.00am-2.30pm			
26 September	11.00am-5.00pm	Spring	Wairoa	Presbyterian/Methodist Hall Queens Street, Wairoa
27 September	10.00am-4.00pm			
27 September	8.30am-5.00pm	Spring	Ipswich	Bundamba State School Hall Brisbane Road, Bundamba
28 September	8.30am-2.00pm			
3-4 October	8.30am-6.30pm	Spring	Sunshine Coast Caloundra	Pelican Waters Shopping Centre, Caloundra
4 October	9.00am-5.00pm	Spring	Hervey Bay	Urangan State High School Gymnasium Robert Street, Urangan, Hervey Bay
5 October	9.00am-3.00pm			
9 October	8.00am-3.00pm	Spring	Gladstone Orchid & Foliage	Valley Shopping Centre, Goondoon Street, Gladstone
9-11 October	Shopping Centre Hours	Spring	Mackay & District	Mt. Pleasant/Greenfields, Shopping Centre
11 October	9.00am-3.00pm	Spring	Bribie Island	Indoor Bowls Club Hall First Avenue, Bribie Island
12 October	9.00am-3.00pm			
11 October	9.00am-4.00pm	Spring	Beauesert Districts Orchids & Foliage	'Drydan' Pavilion Beauesert Showground, Albert Street, Beauesert
12 October	9.00am-3.00pm			
11 October	8.30am-4.00pm	Spring	Redlands	Donald Simpson Centre, 172 Bloomfield Street, Cleveland
16-18 October	Shopping Centre Hours	Spring	Southport & Districts	Burleightown Market Place, West Burleigh Road, Burleigh Heads
South Australia				
18-23 August	Shopping Centre Hours	Spring	Cymbidium Club of SA	West Lakes Mall, 111 West Lakes Boulevard, West Lakes
30 August	12 noon-5.00pm	Spring	Riverland	Senior Citizens Club Crawford Terrace, Berri
31 August	10.00am-4.00pm			
29 Aug-6 September	9.00am-9.00pm	Spring	Orchid Club of SA	Wayville Showgrounds, Centennial Hall, Wayville
7-14 September	10.00am-4.00pm	Spring	Pt. Lincoln Orchid Club	Kallinyalla Nursery, Pt. Lincoln
8-13 September	Shopping Centre Hours	Spring	Northern & Eastern Districts	Greenacres Shopping Centre, Cnr. Mullers & North East Roads, Greenacres
12 September	12 noon-4.00pm	Spring	Murray Bridge & Districts Orchid Club	Town Hall Bridge Street, Murray Bridge
13-14 September	10.00am-4.00pm			
15-20 September	Shopping Centre Hours	Spring	Gawler Districts Orchid Club	Elizabeth Shopping Centre, Elizabeth
16-21 September	10.00am-5.00pm	Spring (16th Aust Orchid Conference)	Orchid Club of SA	Wayville Showgrounds Centennial Hall, Wayville
22-27 September	Shopping Centre Hours	Spring	Northern & Eastern Districts	Northpark Shopping Centre, Main North Road, Prospect
22-27 September	Shopping Centre Hours	Spring	South Australian Orchidaceous	Burnside Village, Shopping Centre
24-27 September	Shopping Centre Hours	Spring	Whyalla Orchid Club	Westlands Shopping Centre, Whyalla
26 September	9.00am-5.00pm	Spring	Pt. Augusta Orchid	TBA
27 September	9.00am-2.00pm	Club		
Western Australia				
13-14 September	10.00am-4.00pm	Spring	August & Districts	Margaret River Cultural Centre, Wallcliffe Road, Margaret River
13 September	11.30am-4.30pm	Spring	Mandurah & Districts Orchid Club	Rockingham Masonic Hall Rockingham
14 September	9.00am-4.00pm			
25 September	8.30am-9.00pm	Spring	Albany	North Road Shopping Centre North Road Albany
26 September	8.30am-5.30pm			
27 September	8.30am-12 noon			
25-27 September	8.00am-5.30pm	Spring	Bunbury	Bunbury Forum Shopping Centre, Bunbury
25-27 September	Shopping Centre Hours	Spring	Wannaroo	Kingsway Shopping Centre, Cnr. Wannaroo Road & Hepburn Avenue, Lansdale
Tasmania				
3 October	2.00pm-6.00pm	Spring	Devonport	Maidstone Park Memorial Hall Spreyton via Devonport
4 October	9.00am-6.00pm			
5 October	9.00am-4.30pm			
3 October	2.00pm-6.00pm	Spring	Launceston	Launceston Silver Dome Prospect
4 October	10.00am-6.00pm			
5 October	10.00am-4.00pm			
10 October	2.00pm-6.00pm	Spring	Burnie	Braddon Hall Burnie Civic Centre Burnie
11 October	9.00am-6.00pm			
12 October	9.00am-4.00pm			

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